

Suchart Kothan

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100
papers

1,011
citations

16
h-index

28
g-index

109
ext. papers

1,557
ext. citations

3.1
avg, IF

4.95
L-index

#	Paper	IF	Citations
100	Spectrofluorometric determination of intracellular levels of reactive oxygen species in drug-sensitive and drug-resistant cancer cells using the 2',7'-dichlorofluorescein diacetate assay. <i>Radiation Physics and Chemistry</i> , 2005 , 72, 323-331	2.5	167
99	High transparency La ₂ O ₃ -CaO-B ₂ O ₃ -SiO ₂ glass for diagnosis x-rays shielding material application. <i>Radiation Physics and Chemistry</i> , 2019 , 160, 41-47	2.5	104
98	Chitosan-triphosphate nanoparticles for encapsulation of super-paramagnetic iron oxide as an MRI contrast agent. <i>Carbohydrate Polymers</i> , 2014 , 104, 231-7	10.3	57
97	The effect of particle size on radiation shielding properties for bismuth borosilicate glass. <i>Radiation Physics and Chemistry</i> , 2020 , 172, 108791	2.5	49
96	Quercetin, Siamois 1 and Siamois 2 induce apoptosis in human breast cancer MDA-mB-435 cells xenograft in vivo. <i>Cancer Biology and Therapy</i> , 2007 , 6, 56-61	4.6	42
95	N,N,N-Trimethyl chitosan nanoparticles for the delivery of monoclonal antibodies against hepatocellular carcinoma cells. <i>Carbohydrate Polymers</i> , 2011 , 85, 215-220	10.3	35
94	High density tungsten gadolinium borate glasses doped with Eu ³⁺ ion for photonic and scintillator applications. <i>Radiation Physics and Chemistry</i> , 2020 , 172, 108868	2.5	26
93	Mechanical and radiation shielding properties of flexible material based on natural rubber/ Bi ₂ O ₃ composites. <i>Radiation Physics and Chemistry</i> , 2020 , 172, 108772	2.5	24
92	Spectrophotometric Characterization of Behavior and the Predominant Species of Flavonoids in Physiological Buffer: Determination of Solubility, Lipophilicity and Anticancer Efficacy. <i>Open Drug Delivery Journal</i> , 2008 , 2, 10-19		24
91	Spectroscopic study of Nd ³⁺ ion-doped Zn-Al-Ba borate glasses for NIR emitting device applications. <i>Optical Materials</i> , 2020 , 107, 110018	3.3	21
90	Structural changes of the cervical muscles in elder women with cervicogenic headache. <i>Musculoskeletal Science and Practice</i> , 2017 , 29, 1-6	2.4	20
89	Physical, optical and luminescence properties of the Dy ³⁺ -doped barium borophosphate glasses. <i>Journal of Non-Crystalline Solids</i> , 2019 , 521, 119483	3.9	19
88	Investigations on nonlinear optical properties of gold nanoparticles doped fluoroborate glasses for optical limiting applications. <i>Journal of Non-Crystalline Solids</i> , 2020 , 538, 120010	3.9	18
87	Photoluminescence properties and energy transfer investigations of Gd ³⁺ and Sm ³⁺ co-doped ZnO-BaO-TeO ₂ glasses for solid state laser application. <i>Journal of Luminescence</i> , 2020 , 224, 117275	3.8	18
86	Development of Eu ³⁺ -doped phosphate glass for red luminescent solid-state optical devices. <i>Journal of Luminescence</i> , 2020 , 227, 117564	3.8	17
85	Effect of BaO on lead free zinc barium tellurite glass for radiation shielding materials in nuclear application. <i>Journal of Non-Crystalline Solids</i> , 2020 , 550, 120386	3.9	17
84	Structural analysis and luminescence studies of Ce ³⁺ : Dy ³⁺ co-doped calcium zinc gadolinium borate glasses using EXAFS. <i>Radiation Physics and Chemistry</i> , 2020 , 171, 108695	2.5	15

83	In vitro and in vivo study of ^{99m}Tc -MIBI encapsulated in PEG-liposomes: a promising radiotracer for tumour imaging. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2003 , 30, 502-9	8.8	15
82	Investigation of XANES study and energy transport phenomenon of Gd^{3+} to Ce^{3+} in $\text{CaO}:\text{Bi}_2\text{O}_3:\text{B}_2\text{O}_3$ glasses. <i>Optical Materials</i> , 2020 , 102, 109826	3.3	15
81	Development of WO_3 - Gd_2O_3 : B_2O_3 high density glasses doped with Dy^{3+} for photonics and scintillation materials application. <i>Solid State Sciences</i> , 2020 , 101, 106135	3.4	14
80	X-ray/proton and photoluminescence behaviors of Sm^{3+} doped high-density tungsten gadolinium borate scintillating glass. <i>Journal of Alloys and Compounds</i> , 2020 , 849, 156574	5.7	12
79	Body mass index and its effects on liver fat content in overweight and obese young adults by proton magnetic resonance spectroscopy technique. <i>World Journal of Hepatology</i> , 2018 , 10, 924-933	3.4	12
78	Comparative study of optical and luminescence properties of Sm^{3+} -ions doped $\text{Li}_2\text{O}:\text{Gd}_2\text{O}_3:\text{PbO}:\text{Bi}_2\text{O}_3$ and $\text{Li}_2\text{O}:\text{Gd}_2\text{O}_3:\text{PbO}:\text{Bi}_2\text{O}_3$ glasses for orange emission solid state device application. <i>Journal of Luminescence</i> , 2020 , 222, 117136	3.8	11
77	Spectroscopic study and energy transfer behavior of Gd^{3+} to Dy^{3+} for $\text{Li}_2\text{O}:\text{MgO}:\text{Gd}_2\text{O}_3:\text{B}_2\text{O}_3:\text{Dy}_2\text{O}_3$ glasses for white emission material. <i>Journal of Luminescence</i> , 2020 , 226, 117380	3.8	10
76	MRI and $(1)\text{H}$ MRS evaluation for the serial bile duct changes in hamsters after infection with <i>Opisthorchis viverrini</i> . <i>Magnetic Resonance Imaging</i> , 2013 , 31, 1418-25	3.3	10
75	Effects of obesity on the lipid and metabolite profiles of young adults by serum ^1H -NMR spectroscopy. <i>PeerJ</i> , 2019 , 7, e7137	3.1	10
74	Intense red emission via energy transfer from $(\text{Ce}^{3+}/\text{Eu}^{3+}):\text{P}_2\text{O}_5+\text{NaF}+\text{CaF}_2+\text{AlF}_3$ glasses for warm light sources. <i>Ceramics International</i> , 2021 , 47, 1962-1969	5.1	10
73	Radio and photo luminescence of Dy^{3+} doped lithium fluorophosphate scintillating glass. <i>Radiation Physics and Chemistry</i> , 2021 , 185, 109520	2.5	10
72	Antioxidant compounds and activities of the stem, flower, and leaf extracts of the anti-smoking Thai medicinal plant: Less. <i>Drug Design, Development and Therapy</i> , 2017 , 11, 383-391	4.4	9
71	Super-paramagnetic loaded nanoparticles based on biological macromolecules for in vivo targeted MR imaging. <i>International Journal of Biological Macromolecules</i> , 2016 , 86, 233-41	7.9	9
70	Synthesis and radiation properties of $\text{Li}_2\text{O}-\text{BaO}-\text{Bi}_2\text{O}_3-\text{P}_2\text{O}_5$ glasses. <i>Materials Today: Proceedings</i> , 2021 , 43, 2544-2553	1.4	9
69	Synthesis and characterization of borate glasses for thermal neutron scintillation and imaging. <i>Radiation Measurements</i> , 2020 , 134, 106319	1.5	8
68	Short-Term Effects of Cognitive Training Program for Individuals with Amnesic Mild Cognitive Impairment: A Pilot Study. <i>Physical and Occupational Therapy in Geriatrics</i> , 2012 , 30, 138-149	1.1	8
67	Dapagliflozin ameliorates pancreatic injury and activates kidney autophagy by modulating the AMPK/mTOR signaling pathway in obese rats. <i>Journal of Cellular Physiology</i> , 2021 , 236, 6424-6440	7	8
66	Dy^{3+} doped B_2O_3 $-\text{Li}_2\text{O}$ $-\text{CaO}$ $-\text{CaF}_2$ glass for efficient white light emitting sources. <i>Journal of Non-Crystalline Solids</i> , 2021 , 554, 120604	3.9	8

65	The Effects of Iodinated Radiographic Contrast Media on Multidrug-resistant K562/Dox Cells: Mitochondria Impairment and P-glycoprotein Inhibition. <i>Cell Biochemistry and Biophysics</i> , 2019 , 77, 157-163	3.3	7
64	Effect of Gd ₂ O ₃ on the radiation shielding, physical, optical and luminescence behaviors of Gd ₂ O ₃ -BaO-ZnO-B ₂ O ₃ -Dy ₂ O ₃ glasses. <i>Radiation Physics and Chemistry</i> , 2021 , 185, 109500	2.5	7
63	An evaluation of the antioxidant properties of iodinated radiographic contrast media: An study. <i>Toxicology Reports</i> , 2018 , 5, 840-845	4.8	6
62	Luminescence behavior of Nd ³⁺ ions doped ZnO-BaO-(Gd ₂ O ₃ /GdF ₃)-P ₂ O ₅ glasses for laser material applications. <i>Journal of Luminescence</i> , 2021 , 236, 118139	3.8	6
61	Luminescence and Scintillation Properties of Dy ³⁺ doped Li ₆ Y(BO ₃) ₃ crystal. <i>Optical Materials</i> , 2020 , 106, 109973	3.3	5
60	The Effects of Medical Diagnostic Low Dose X-rays after in vitro Exposure of Human Red Blood Cells: Hemolysis and Osmotic Fragility. <i>Toxicology and Environmental Health Sciences</i> , 2019 , 11, 237-243	1.9	5
59	Identification of Metabolic Phenotypes in Young Adults with Obesity by H NMR Metabolomics of Blood Serum. <i>Life</i> , 2021 , 11,	3	5
58	Rapid and convenient crystallization of quantum dot CsPbBr ₃ inside a phosphate glass matrix. <i>Journal of Alloys and Compounds</i> , 2021 , 866, 158974	5.7	5
57	Gd ³⁺ /Sm ³⁺ energy transfer behavior and spectroscopic study of lithium gadolinium magnesium borate for solid state lighting material. <i>Optical Materials</i> , 2021 , 111, 110657	3.3	5
56	Wearable and flexible radiation shielding natural rubber composites: Effect of different radiation shielding fillers. <i>Radiation Physics and Chemistry</i> , 2021 , 179, 109261	2.5	5
55	Strong emission from Ce ³⁺ doped gadolinium oxyfluoroborate scintillation glasses matrix. <i>Radiation Physics and Chemistry</i> , 2021 , 185, 109497	2.5	5
54	Insulin negatively regulates dedifferentiation of mouse adipocytes in vitro. <i>Adipocyte</i> , 2020 , 9, 24-34	3.2	4
53	Structural and luminescence study of Dy ³⁺ doped phosphate glasses for solid state lighting applications. <i>Optical Materials</i> , 2020 , 109, 110322	3.3	4
52	Precursor Based Tuning of the Nonlinear Optical Properties of Au-Ag Bimetallic Nanoparticles Doped in Oxy-fluoroborate Glasses. <i>Journal of Non-Crystalline Solids</i> , 2021 , 561, 120766	3.9	4
51	IR emission of Er ³⁺ ion-doped fluoroborotellurite glass for communication application. <i>Journal of Non-Crystalline Solids</i> , 2021 , 566, 120849	3.9	4
50	Visible to infrared emission from (Eu ³⁺ /Nd ³⁺):B ₂ O ₃ -AlF ₃ -NaF-CaF ₂ glasses for luminescent solar converters. <i>Optics and Laser Technology</i> , 2021 , 141, 107170	4.2	4
49	Luminescence and scintillation properties of Ce ³⁺ -doped P ₂ O ₅ -Li ₂ CO ₃ -GdBr ₃ -Al ₂ O ₃ glasses. <i>Journal of Non-Crystalline Solids</i> , 2021 , 567, 120914	3.9	4
48	Bone mineral density at distal forearm in men over 40 years of age in Mae Chaem district, Chiang Mai Province, Thailand: a pilot study. <i>Aging Male</i> , 2017 , 20, 170-174	2.1	3

47	Structural and Radiation Shielding Properties of Dy ³⁺ doped Phosphate Glasses. <i>Journal of Physics: Conference Series</i> , 2020 , 1428, 012016	0.3	3
46	A study of x-ray radiation shielding properties of bricks contained barium sulfate 2020 ,		3
45	Autophagy participants in the dedifferentiation of mouse 3T3-L1 adipocytes triggered by hypofunction of insulin signaling. <i>Cellular Signalling</i> , 2021 , 80, 109911	4.9	3
44	Magnetic Resonance Spectroscopy of Hepatic Fat from Fundamental to Clinical Applications. <i>Diagnostics</i> , 2021 , 11,	3.8	3
43	Influence of trivalent praseodymium ion on SiO ₂ B ₂ O ₃ Al ₂ O ₃ BaOCaO ₅ B ₂ O ₃ Na ₂ OPr ₂ O ₃ glasses for X-Rays shielding and luminescence materials. <i>Radiation Physics and Chemistry</i> , 2021 , 184, 109467	2.5	3
42	Development of New High Transparency Pb-Free Radiation Shielding Glass. <i>Integrated Ferroelectrics</i> , 2021 , 214, 181-204	0.8	3
41	Waist Circumference and BMI Are Strongly Correlated with MRI-Derived Fat Compartments in Young Adults. <i>Life</i> , 2021 , 11,	3	3
40	Fabrication of K ₂ OAl ₂ O ₃ Ti ₂ O ₃ B ₂ O ₅ glasses for photonic and scintillation materials applications. <i>Radiation Physics and Chemistry</i> , 2021 , 188, 109639	2.5	3
39	Scintillation respond and orange emission from Sm ³⁺ ion doped tellurite and fluorotellurite glasses: A comparative study. <i>Radiation Physics and Chemistry</i> , 2021 , 189, 109754	2.5	3
38	Trap level analysis of Ce ³⁺ and Sm ³⁺ in Li ₆ Y(BO ₃) ₃ . <i>Ceramics International</i> , 2019 , 45, 11893-11898	5.1	2
37	Radiation Shielding Properties of BaO-ZnO-B ₂ O ₃ Glass for X-Ray Room. <i>Key Engineering Materials</i> , 2018 , 766, 88-93	0.4	2
36	Fornix Integrity Is Differently Associated With Cognition in Healthy Aging and Non-amnestic Mild Cognitive Impairment: A Pilot Diffusion Tensor Imaging Study in Thai Older Adults. <i>Frontiers in Aging Neuroscience</i> , 2020 , 12, 594002	5.3	2
35	Mass Attenuation Coefficients and Partial Interactions of BaO-ZnO-B ₂ O ₃ Glasses System. <i>Key Engineering Materials</i> , 2016 , 675-676, 438-442	0.4	2
34	Tunable orange, yellow and white emission of Pr ³⁺ -doped tungsten gadolinium borate glasses. <i>Journal of Non-Crystalline Solids</i> , 2021 , 554, 120603	3.9	2
33	XANES and Luminescence Studies of M ₂ O ₃ -CaO-SiO ₂ -B ₂ O ₃ (M ₂ O ₃ = Y ₂ O ₃ and La ₂ O ₃) Glasses Doped with Dy ³⁺ Ions. <i>Key Engineering Materials</i> , 2018 , 780, 37-42	0.4	2
32	Development of bismuth alumino borosilicate glass for radiation shielding material. <i>Radiation Physics and Chemistry</i> , 2021 , 186, 109542	2.5	2
31	The radioluminescence and photoluminescence behaviour of lithium alumino borate glasses doped with Tb ₂ O ₃ and Gd ₂ O ₃ for green luminescence applications. <i>Optical Materials</i> , 2021 , 121, 111437	3.3	2
30	Effect of Gd ₂ O ₃ concentration on X-rays induced and photoluminescence characteristics of Eu ³⁺ - Activated Gd ₂ O ₃ B ₂ O ₃ glass. <i>Radiation Physics and Chemistry</i> , 2021 , 189, 109681	2.5	2

29	Study on radiation shielding properties of glass samples doped with holmium 2020 ,		1
28	Mechanical and gamma radiation shielding properties of natural rubber composites: effects of bismuth oxide (Bi ₂ O ₃) and lead oxide (PbO). <i>Materials Research Innovations</i> , 2020 , 1-8	1.9	1
27	Effects of gadolinium-based magnetic resonance imaging contrast media on red blood cells and K562 cancer cells. <i>Journal of Trace Elements in Medicine and Biology</i> , 2020 , 62, 126640	4.1	1
26	Challenges and optimization strategies in medical imaging service delivery during COVID-19. <i>World Journal of Radiology</i> , 2021 , 13, 102-121	2.9	1
25	Investigation of gamma-ray induced optical property changes in non-doped and Ce-doped lithium-rich oxide glass. <i>Radiation Physics and Chemistry</i> , 2021 , 179, 109272	2.5	1
24	Protein binding of 4-hydroxybenzoic acid and 4-hydroxy-3-methoxybenzoic acid to human serum albumin and their anti-proliferation on doxorubicin-sensitive and doxorubicin-resistant leukemia cells. <i>Toxicology Reports</i> , 2021 , 8, 1381-1388	4.8	1
23	Differences in Spectroscopic Properties of Saliva Taken From Normal Subjects and Oral Cancer Patients: Comparison Studies. <i>Journal of Fluorescence</i> , 2021 , 31, 747-754	2.4	1
22	Luminescence and physical properties of Ce ³⁺ -doped potassium gadolinium phosphate glasses for radiation detector application. <i>Radiation Physics and Chemistry</i> , 2021 , 185, 109496	2.5	1
21	Structural and luminescence investigation of Ce ³⁺ doped lithium barium gadolinium phosphate glass scintillator. <i>Radiation Physics and Chemistry</i> , 2021 , 185, 109488	2.5	1
20	Luminescence properties of Ce ³⁺ - doped borate scintillating glass for new radiation detection material. <i>Radiation Physics and Chemistry</i> , 2021 , 185, 109498	2.5	1
19	Luminescence and scintillation properties of Czochralski grown Pr ³⁺ doped Li ₆ Y(BO ₃) ₃ single crystal. <i>Optical Materials</i> , 2021 , 119, 111361	3.3	1
18	Effective red-orange luminescence and energy transfer from Gd ³⁺ to Eu ³⁺ in lithium gadolinium magnesium borate for optical devices. <i>Journal of Non-Crystalline Solids</i> , 2021 , 569, 120927	3.9	1
17	Advanced Molecular Imaging (MRI/MRS/H NMR) for Metabolic Information in Young Adults with Health Risk Obesity. <i>Life</i> , 2021 , 11,	3	1
16	Photon interaction and electron nonproportional response of CLYC scintillation material. <i>Radiation Physics and Chemistry</i> , 2021 , 188, 109565	2.5	1
15	The photon interactions and build-up factor for gadolinium sodium borate glass: Theoretical and experimental approaches. <i>Radiation Physics and Chemistry</i> , 2021 , 188, 109561	2.5	1
14	Effect of iodinated radiographic contrast media on radioimmunoassay for measuring thyroid hormones.. <i>Applied Radiation and Isotopes</i> , 2022 , 185, 110261	1.7	1
13	The Physical, Optical, Photo and Radioluminescence Studies of Dy ³⁺ Doped Zinc Barium Gadolinium Phosphate Glasses. <i>Glass Physics and Chemistry</i> , 2020 , 46, 474-486	0.7	0
12	Distal Forearm Bone Mineral Density Among Hill Tribes in the Omkoi District, Chiang Mai Province, Thailand. <i>Open Public Health Journal</i> , 2019 , 12, 1-6	0.6	0

11	Effect of fluoroscopic X-rays combined with iodinated radiographic contrast media on human hematological parameters. <i>Toxicology and Environmental Health Sciences</i> , 2021 , 13, 225-235	1.9	0
10	Different responses of normal cells (red blood cells) and cancer cells (K562 and K562/Dox cells) to low-dose Cs gamma-rays. <i>Molecular and Clinical Oncology</i> , 2021 , 14, 74	1.6	0
9	Dysfunction of insulin-AKT-UCP1 signalling inhibits transdifferentiation of human and mouse white preadipocytes into brown-like adipocytes.. <i>Adipocyte</i> , 2022 , 11, 213-226	3.2	0
8	The Incidence and Associated Risk Factors of Contrast-Induced Nephropathy after Contrast-Enhanced Computed Tomography in the Emergency Setting: A Systematic Review. <i>Life</i> , 2022 , 12, 826	3	0
7	Development of Tin-Based Single Crystal Scintillator for Double-Beta Decay Experiments. <i>IEEE Transactions on Nuclear Science</i> , 2020 , 67, 922-926	1.7	
6	Magnetic Susceptibility of PAlNaGd doped with Europium Glasses and its effect on MR imaging. <i>Journal of Physics: Conference Series</i> , 2019 , 1259, 012016	0.3	
5	The influence of leg positioning on the appearance and quantification of H magnetic resonance muscle spectra obtained from calf muscle. <i>Polish Journal of Radiology</i> , 2018 , 83, e627-e633	1.6	
4	Effects of muscle fiber orientation to main magnetic field on muscle metabolite profiles for magnetic resonance spectroscopy acquisition. <i>World Journal of Radiology</i> , 2019 , 11, 1-9	2.9	
3	Optical and Luminescence Properties of Pr ³⁺ in Gd ₂ O ₃ -CaO-SiO ₂ -B ₂ O ₃ Glasses. <i>Key Engineering Materials</i> , 2016 , 675-676, 359-363	0.4	
2	Density measurement of multi-layered material using gamma-ray transmission technique. <i>Radiation Physics and Chemistry</i> , 2021 , 188, 109618	2.5	
1	Electron and photon responses of CWO scintillation crystal. <i>Radiation Physics and Chemistry</i> , 2021 , 189, 109749	2.5	