Marimuthu K

List of Publications by Citations

115 papers	3,789 citations	40 h-index	55 g-index
137 ext. papers	4,613 ext. citations	3.4 avg, IF	6.45 L-index

#	Paper	IF	Citations
115	Concentration effect of Sm3+ ions in B2O3PbOPbF2Bi2O3ZnO glasses Structural and luminescence investigations. *Journal of Alloys and Compounds*, **2013**, 565, 104-114	5.7	117
114	Composition dependent structural and optical properties of Sm3+-doped sodium borate and sodium fluoroborate glasses. *Journal of Luminescence*, **2010**, 130, 1313-1319	3.8	113
113	Composition dependent structural and optical properties of Sm3+ doped boro-tellurite glasses. *Journal of Luminescence*, **2011**, 131, 2746-2753	3.8	105
112	Structural and luminescence properties of Dy3+ doped oxyfluoro-borophosphate glasses for lasing materials and white LEDs. *Journal of Alloys and Compounds*, **2015**, 629, 230-241	5.7	102
111	Concentration dependent Eu3+ doped boro-tellurite glassesStructural and optical investigations. *Journal of Luminescence*, **2012**, 132, 2259-2267	3.8	95
110	Structural and luminescence studies on Dy3+ doped boro-phosphate glasses for white LEDs and laser applications. *Journal of Alloys and Compounds*, **2015**, 652, 234-243	5.7	78
109	Structural and optical investigations on Dy 3+ doped lithium tellurofluoroborate glasses for white light applications. *Journal of Luminescence*, **2016**, 176, 15-24	3.8	74
108	Structural and spectroscopic investigations on Eu3+-doped alkali fluoroborate glasses. *Solid State Sciences*, **2009**, 11, 1297-1302	3.4	73
107	Effect Bi2O3 on the physical, structural and radiation shielding properties of Er3+ ions doped bismuth sodiumfluoroborate glasses. *Journal of Non-Crystalline Solids*, **2018**, 499, 75-85	3.9	71
106	Structural and luminescence behavior of Sm3+ ions doped lead boro-telluro-phosphate glasses. *Journal of Luminescence*, **2015**, 159, 207-218	3.8	70
105	Structural and spectroscopic studies on concentration dependent Sm3+ doped boro-tellurite glasses. *Journal of Alloys and Compounds*, **2013**, 553, 273-281	5.7	70
104	Investigations on structural and luminescence behavior of Er3+ doped Lithium Zinc borate glasses for lasers and optical amplifier applications. *Journal of Non-Crystalline Solids*, **2016**, 447, 273-282	3.9	69
103	Structural and luminescence investigations on Sm3+ doped sodium fluoroborate glasses containing alkali/alkaline earth metal oxides. *Physica B: Condensed Matter*, **2011**, 406, 548-555	2.8	69
102	Structural and optical properties of Dy3+ doped Aluminofluoroborophosphate glasses for white light applications. *Optical Materials*, **2014**, 37, 695-705	3.3	66
101	Structural and spectroscopic studies on concentration dependent Er3+ doped boro-tellurite glasses. *Journal of Luminescence*, **2012**, 132, 1171-1178	3.8	65
100	Structural and luminescence behavior of lead fluoroborate glasses containing Eu3+ ions. *Physica B: Condensed Matter*, **2013**, 416, 88-100	2.8	65
99	Structural and optical studies on Eu3+ doped boro-tellurite glasses. *Solid State Sciences*, **2013**, 17, 54-62	3.4	64

98	Structural and luminescence studies on Dy3+ doped lead boro□elluro-phosphate glasses. *Physica B: Condensed Matter*, **2014**, 454, 72-81	2.8	62
97	Investigations on spectroscopic properties of Dy 3+ doped zinc telluro-fluoroborate glasses for laser and white LED applications. *Journal of Molecular Structure*, **2016**, 1125, 443-452	3.4	62
96	Concentration dependent luminescence studies on Eu3+ doped telluro fluoroborate glasses. *Journal of Luminescence*, **2014**, 154, 160-167	3.8	60
95	Influence of Bi2O3 concentration on barium-telluro-borate glasses: Physical, structural and radiation-shielding properties. *Ceramics International*, **2021**, 47, 329-340	5.1	59
94	Dysprosium doped alkali fluoroborate glasses□hermal, structural and optical investigations. *Journal of Luminescence*, **2010**, 130, 1067-1072	3.8	54
93	Luminescence studies on Ag nanoparticles embedded Eu3+doped boro-phosphate glasses. *Journal of Alloys and Compounds*, **2016**, 665, 294-303	5.7	53
92	Luminescence spectra and structure of Er3+ doped alkali borate and fluoroborate glasses. *Journal of Physics and Chemistry of Solids*, **2013**, 74, 1570-1577	3.9	51
91	Structural, optical and thermal investigations on Dy3+ doped NaF□i2O□2O3 glasses. *Physica B: Condensed Matter*, **2009**, 404, 3995-4000	2.8	51
90	Concentration dependent spectroscopic behavior of Sm3+ doped leadfluoro-borophosphate glasses for laser and LED applications. *Journal of Alloys and Compounds*, **2015**, 647, 209-220	5.7	50
89	Effect of Bi2O3 on the structural and spectroscopic properties of Sm3+ ions doped sodiumfluoroborate glasses. *Journal of Molecular Structure*, **2016**, 1105, 214-224	3.4	50
88	Luminescence and energy transfer studies on Sm 3+ /Tb 3+ codoped telluroborate glasses for WLED applications. *Journal of Molecular Structure*, **2018**, 1151, 266-276	3.4	49
87	Structural and luminescence studies on Er3+/Yb3+ co-doped boro-tellurite glasses. *Journal of Alloys and Compounds*, **2013**, 561, 142-150	5.7	49
86	Structural and optical investigations on Dy3+ doped boro-tellurite glasses. *Journal of Alloys and Compounds*, **2011**, 509, 7427-7433	5.7	48
85	Red light generation through the lead boro□ellurop□hosphate glasses activated by Eu3+ ions. *Journal of Molecular Structure*, **2016**, 1119, 276-285	3.4	48
84	Spectroscopic and energy transfer behavior of Dy(3+) ions in B2O3TeO2PbOPbF2Bi2O3CdO glasses for laser and WLED applications. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2015**, 136 Pt C, 1684-97	4.4	47
83	Structural and spectroscopic studies on Er3+ doped boro-tellurite glasses. *Physica B: Condensed Matter*, **2012**, 407, 1086-1093	2.8	46
82	Structural, optical absorption and luminescence properties of Nd3+ ions in NaO-NaF borate glasses. *Optical Materials*, **2010**, 32, 1035-1041	3.3	46
81	Structural and luminescence studies on Eu3+: B2O3□i2O□MO□iF (M=Ba, Bi2, Cd, Pb, Sr2 and Zn) glasses. *Journal of Luminescence*, **2013**, 139, 6-15	3.8	45

80	The impact of Er3+ ions on the spectroscopic scrutiny of Bismuth bariumtelluroborate glasses for display devices and 1.53 Eh amplification. *Journal of Non-Crystalline Solids*, **2019**, 520, 119463	3.9	43
79	White light simulation and luminescence studies on Dy3+ doped Zinc borophosphate glasses. *Physica B: Condensed Matter*, **2015**, 457, 287-295	2.8	43
78	Structural and spectroscopic behavior of Er3+/Yb3+ co-doped boro-tellurite glasses. *Journal of Non-Crystalline Solids*, **2015**, 410, 26-34	3.9	41
77	Influence of Er3+ ion concentration on spectroscopic properties and luminescence behavior in Er3+ doped Strontium telluroborate glasses. *Journal of Luminescence*, **2016**, 171, 19-26	3.8	41
76	Structural, optical and thermal studies of Eu3+ ions in lithium fluoroborate glasses. *Solid State Sciences*, **2009**, 11, 1882-1889	3.4	41
75	Structural, elastic, optical and Eray shielding behavior of Dy3+ ions doped heavy metal incorporated borate glasses. *Journal of Non-Crystalline Solids*, **2020**, 545, 120269	3.9	40
74	Structural and optical studies of Eu3+ ions in alkali borate glasses. *Physica Status Solidi (A) Applications and Materials Science*, **2009**, 206, 131-139	1.6	40
73	Enhanced luminescence behaviour of Eu3+ doped heavy metal oxide telluroborate glasses for Laser and LED applications. *Physica B: Condensed Matter*, **2017**, 509, 84-93	2.8	39
72	Concentration dependent structural, optical and thermal investigations of Dy3+-doped sodium fluoroborate glasses. *Journal of Luminescence*, **2010**, 130, 2407-2412	3.8	39
71	Luminescence studies on Dy 3+ doped calcium boro-tellurite glasses for White light applications. *Physica B: Condensed Matter*, **2017**, 521, 347-354	2.8	38
70	Thermal, structural and spectroscopic investigations on Eu3+ doped boro-tellurite glasses. *Materials Chemistry and Physics*, **2011**, 131, 204-210	4.4	37
69	Physical, structural, and radiation shielding properties of B2O3MgOK2OSm2O3 glass network modified with TeO2. *Radiation Physics and Chemistry*, **2019**, 160, 75-82	2.5	36
68	Spectroscopic properties of Eu3 + ions doped Barium telluroborate glasses for red laser applications. *Journal of Non-Crystalline Solids*, **2017**, 463, 148-157	3.9	35
67	Tailoring the luminescence of Eu3+ co-doped Dy3+ incorporated aluminofluoro-borophosphate glasses for white light applications. *Journal of Luminescence*, **2016**, 178, 414-424	3.8	34
66	The impact of Er/Yb co-doping on the spectroscopic performance of bismuth borophosphate glasses for photonic applications. *Vacuum*, **2021**, 183, 109788	3.7	33
65	Spectroscopic properties of Er3+ doped bismuth leadtelluroborate glasses for 1.53Eh optical amplifiers. *Journal of Alloys and Compounds*, **2015**, 627, 54-68	5.7	32
64	Physical and structural effect of modifiers on dysprosium ions incorporated boro-tellurite glasses for radiation shielding purposes. *Ceramics International*, **2020**, 46, 17929-17937	5.1	32
63	Structural and optical studies on Dy3+:Tb3+ co-doped zinc leadfluoro-borophosphate glasses for white light applications. *Journal of Alloys and Compounds*, **2018**, 745, 306-318	5.7	32

62	Influence of modifier oxide on the structural and radiation shielding features of Sm3+-doped calcium telluro-fluoroborate glass systems. *Journal of the Australian Ceramic Society*, **2021**, 57, 275-286	1.5	32
61	Effect of Pr 3+ ions concentration on the spectroscopic properties of Zinc telluro-fluoroborate glasses for laser and optical amplifier applications. *Journal of Luminescence*, **2017**, 187, 392-402	3.8	31
60	Structural, optical and nuclear radiation shielding properties of strontium barium borate glasses doped with dysprosium and niobium. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 8570-8592	2.1	30
59	Modifier effect on the spectroscopic properties of tellurofluoroborate glasses containing Sm3+ ions. *Journal of Luminescence*, **2016**, 178, 43-53	3.8	30
58	Impact of BiO modifier concentration on barium-zincborate glasses: physical, structural, elastic, and radiation-shielding properties. *European Physical Journal Plus*, **2021**, 136, 116	3.1	29
57	Concentration dependent spectroscopic properties of Sm3+ doped borophosphate glasses. *Journal of Molecular Structure*, **2015**, 1092, 166-175	3.4	28
56	Spectroscopic properties of Sm ions doped Alkaliborate glasses for photonics applications. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2017**, 185, 139-148	4.4	27
55	Investigations on the spectroscopic properties of Dy ions doped Zinc calcium tellurofluoroborate glasses. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2018**, 193, 422-431	4.4	27
54	Effect of modifier oxides (SrO, Al2O3, ZnO, CdO, PbO and Bi2O3) on the luminescence properties of Er3+ doped telluroborate glasses for laser and optical amplifier applications. *Journal of Luminescence*, **2019**, 207, 534-544	3.8	27
53	Effect of different modifier oxides on the synthesis, structural, optical, and gamma/beta shielding properties of bismuth lead borate glasses doped with europium. *Journal of Materials Science: Materials in Electronics*, **2020**, 31, 21486-21501	2.1	26
52	Effect of PbO on the B 2 O 3 TeO 2 P 2 O 5 BaO CdO Sm 2 O 3 glasses - Structural and optical investigations. *Journal of Non-Crystalline Solids*, **2017**, 461, 35-46	3.9	24
51	Investigations on luminescence behavior of Er 3+ /Yb 3+ co-doped boro-tellurite glasses. *Journal of Molecular Structure*, **2015**, 1079, 130-138	3.4	24
50	An investigation on physical, structural and gamma ray shielding features of Dy3+ ions doped Telluroborate glasses. *Journal of Non-Crystalline Solids*, **2019**, 522, 119574	3.9	24
49	Structural and luminescence behaviour of Er3+ doped telluro-fluoroborate glasses. *Journal of Molecular Structure*, **2015**, 1083, 268-277	3.4	23
48	Structural and luminescence behavior of Er(3+) ions doped Barium tellurofluoroborate glasses. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2015**, 135, 1090-8	4.4	23
47	Structural and luminescence studies of Eu3+: TeO2B2O3AO AF2 (A Pb, Ba, Zn, Cd, Sr) glasses. *Journal of Molecular Structure*, **2017**, 1144, 290-299	3.4	21
46	White light emission and spectroscopic properties of Dy3+ ions doped bismuth sodiumfluoroborate glasses for photonic applications. *Journal of Alloys and Compounds*, **2017**, 723, 100-114	5.7	21
45	Investigations on the optical properties of Dy3+ ions doped potassium aluminiumtelluroborate glasses for white light applications. *Journal of Non-Crystalline Solids*, **2017**, 476, 128-136	3.9	21

44	Structural and luminescence behavior of the Er3 + doped alkali fluoroborate glasses. *Journal of Non-Crystalline Solids*, **2013**, 367, 43-50	3.9	21
43	The concentration impact of Yb3+ on the bismuth boro-phosphate glasses: Physical, structural, optical, elastic, and radiation-shielding properties. *Radiation Physics and Chemistry*, **2021**, 188, 109617	2.5	21
42	Dysprosium doped lead fluoroborate glasses: Structural, optical, and thermal investigations. *Physica Status Solidi (A) Applications and Materials Science*, **2012**, 209, 570-578	1.6	18
41	Structural and spectroscopic behavior of Er3+:Yb3+ co-doped lithium telluroborate glasses. *Physica B: Condensed Matter*, **2015**, 457, 66-77	2.8	17
40	Concentration effect on the structural and spectroscopic investigations of Sm3+ ions doped B2O3Bi2O3CaF2Na2O glasses. *Journal of Luminescence*, **2018**, 196, 151-160	3.8	17
39	Investigations on the spectroscopic properties and local structure of Eu 3+ ions in zinc telluro-fluoroborate glasses for red laser applications. *Journal of Alloys and Compounds*, **2018**, 760, 42-53	5.7	17
38	Silver (Ag) nanoparticles enhanced luminescence properties of Dy ions in borotellurite glasses for white light applications. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2018**, 204, 537-547	4.4	17
37	Influence of modifiers on the physical, structural, elastic and radiation shielding competence of Dy3+ ions doped Alkali boro-tellurite glasses. *Radiation Physics and Chemistry*, **2021**, 189, 109741	2.5	17
36	Judd-Ofelt analysis and NIR luminescence investigations on Er3+ ions doped B2O3Bi2O3Li2OK2O glasses for photonic applications. *Physica B: Condensed Matter*, **2019**, 572, 27-35	2.8	16
35	Influence of Modifier Cations on the Spectroscopic Properties of Dy Doped Telluroborate Glasses for White Light Applications. *Journal of Fluorescence*, **2016**, 26, 2281-2294	2.4	16
34	Effect of Tb3+ concentration on Sm3+ doped leadfluoro-borophosphate glasses for WLED applications. *Journal of Non-Crystalline Solids*, **2016**, 447, 45-54	3.9	15
33	Effect of ZnO on the spectroscopic properties of Dy3+ doped zinc telluroborate glasses for white light generation. *Journal of Non-Crystalline Solids*, **2018**, 498, 386-394	3.9	13
32	Enhanced luminescence properties of Er3+/Yb3+ doped zinc tellurofluoroborate glasses for 1.5 μm optical amplification **2020**,		13
31	Apatites and britholites, are they akin - as probed by Eu3+luminescence?. *Journal of Physics Condensed Matter*, **2001**, 13, 537-547	1.8	12
30	Ce3+-doped stillwellites: a new luminescent system with strong ion lattice coupling. *Journal Physics D: Applied Physics*, **2001**, 34, 2599-2605	3	11
29	Structural and spectroscopic investigations on Eu3+ ions doped boro-phosphate glasses for optical display applications. *Journal of Luminescence*, **2020**, 220, 116964	3.8	11
28	Spectroscopic properties and excited state dynamics of Sm3+ ions in zinc telluro-fluoroborate glasses. *Journal of Luminescence*, **2018**, 202, 289-300	3.8	11
27	Influence of dopant ions concentration on the spectroscopic properties of Eu3+ doped alkaline earth oxyfluoro-borotellurite glasses for LED and red laser applications. *Optical Materials*, **2019**, 93, 44-50	3.3	10

26	Optical studies on Eu3+ doped boro-tellurite glasses **2012**,		9
25	Optical, elastic, and neutron shielding studies of Nb2O5 varied Dy3+ doped barium-borate glasses. *Optik*, **2022**, 251, 168436	2.5	8
24	Composition dependent spectroscopic properties of Er3+-doped boro-tellurite glasses. *Physica Status Solidi (A) Applications and Materials Science*, **2013**, 210, 607-615	1.6	7
23	Optical properties and radiation shielding studies of europium doped modifier reliant multi former glasses. *Optik*, **2021**, 247, 168005	2.5	7
22	Effect of Bi2O3 on JO parameters and spectroscopic properties of Er3+ incorporated sodiumfluoroborate glasses for amplifier applications. *Journal of Non-Crystalline Solids*, **2020**, 532, 119891	3.9	5
21	Dy3+ ion as optical probe to study the luminescence behavior of Alkali lead bismuth borate glasses for w-LED application. *Journal of Alloys and Compounds*, **2021**, 883, 160845	5.7	5
20	Spectroscopic investigations on Sm3+ ions doped zinc telluro-borate glasses for laser applications **2019**,		4
19	Structural and photoluminescence studies on europium-doped lithium tetraborate (Eu:Li 2 B 4 O 7) single crystal grown by microtube Czochralski (□-Cz) technique. *Chinese Physics B*, **2016**, 25, 058105	1.2	4
18	Thulium-doped barium tellurite glasses: structural, thermal, linear, and non-linear optical investigations. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 23030-23046	2.1	4
17	Luminescence studies on Eu3+ ions doped telluroborate glasses for photonic applications **2019**,		3
16	Spectroscopic Studies on Er3+ doped Boro-Tellurite Glasses. *Transactions of the Indian Ceramic Society*, **2013**, 72, 21-23	1.8	3
15	Optical Band Gap Studies on Dy3+ Doped Boro-Tellurite Glasses. *Lecture Notes in Mechanical Engineering*, **2012**, 595-602	0.4	3
14	Luminescence studies on Dy3+:Tb3+ codoped borophosphate glasses for WLED applications **2017**,		2
13	Spectroscopic studies on Sm3+:Tb3+ codoped aluminium borotellurite glasses for white light applications **2019**,		2
12	Structural and luminescence studies on Eu3+: B2O3-Li2O-MO-LiF (M=Ba, Bi, Pb and Zn) glasses **2012**,		2
11	Structural and spectroscopic analyses on the multi former glasses developed with Eu3+ ions in favor of red laser gain medium applications. *Optical Materials*, **2021**, 122, 111704	3.3	2
10	Judd-Ofelt analysis of Sm3+ doped alkali borate glasses for optoelectronic applications **2017**,		1
9	Luminescence properties of Er3+ ions doped bismuth borate glasses for 1.53 □m broadband optical amplifiers **2017**,		1

8	Impact of additives on the structural, elastic, optical and radiation resisting aptitude of the highly dense Sm3+ doped multicomponent glasses. *Optical Materials*, **2021**, 122, 111758	3.3	1
7	NIR luminescence studies on Er3+:Yb3+ co-doped sodium telluroborate glasses for lasers and optical amplifer applications **2016**,		1
6	Structural and luminescence properties of Dy3+-doped alkali fluoroborophosphate glasses for white LEDs applications. *Indian Journal of Physics*, **2020**, 94, 1395-1407	1.4	1
5	Influence of Zn2+ concentration on the luminescence properties of Dy3+ ions doped zinc strontium alumino-telluroborate glasses for light emitting applications. *Journal of Non-Crystalline Solids*, **2022** , 576, 121298	3.9	0
4	Exploration on dysprosium ions doped zinc barium boro-tellurite glasses towards radiation screening and photonic applications. *Physica B: Condensed Matter*, **2021**, 612, 412991	2.8	0
3	Study on the luminescence behavior of Dy3+ ions activated, modifier dependent alkali boro-tellurite glasses for white LED application. *Optik*, **2022**, 259, 169024	2.5	0
2	Spectroscopic Analysis on Sm3+ Doped Fluoroborate Glasses. *Lecture Notes in Mechanical Engineering*, **2012**, 619-626	0.4	
1	Structural and Dielectric Studies on Dy3+ Doped Alkaliborate Glasses. *Lecture Notes in Mechanical Engineering*, **2012**, 637-643	0.4	