Mehmet Ayvacikli

List of Publications by Year
in descending order

68 papers	1,335 citations	331670 21 h-index	414414 32 g-index
68 all docs	68 docs citations	68 times ranked	1129 citing authors

#	Article	IF	Citations
1	An efficient removal of RB5 from aqueous solution by adsorption onto nano-ZnO/Chitosan composite beads. International Journal of Biological Macromolecules, 2017, 96, 459-465.	7.5	92
2	Radioluminescence of SrAl2O4:Ln3+ (Ln=Eu, Sm, Dy) phosphor ceramic. Optical Materials, 2011, 34, 138-142.	3.6	79
3	Synthesis and optical properties of Er3+ and Eu3+ doped SrAl2O4 phosphor ceramic. Journal of Luminescence, 2011, 131, 2432-2439.	3.1	75
4	Removal of thorium (IV) ions from aqueous solution by a novel nanoporous ZnO: Isotherms, kinetic and thermodynamic studies. Journal of Environmental Radioactivity, 2015, 150, 145-151.	1.7	53
5	Optical properties of Cu implanted ZnO. Nuclear Instruments & Methods in Physics Research B, 2006, 249, 474-477.	1.4	40
6	Tunable luminescence of broadband-excited and narrow line green emitting Y 2 SiO 5 :Ce 3+ , Tb 3+ phosphor. Journal of Alloys and Compounds, 2016, 658, 356-366.	5.5	38
7	Removal of uranium(VI) from aqueous solutions using nanoporous ZnO prepared with microwave-assisted combustion synthesis. Journal of Radioanalytical and Nuclear Chemistry, 2014, 299, 1469-1477.	1.5	37
8	Doping Sm3+ into ZnB2O4 phosphors and their structural and cathodoluminescence properties. Journal of Alloys and Compounds, 2018, 748, 245-251.	5.5	36
9	Radioluminescence and photoluminescence characterization of Eu and Tb doped barium stannate phosphor ceramics. Journal of Alloys and Compounds, 2014, 590, 417-423.	5.5	34
10	Solid state synthesis, characterization and optical properties of Tb doped SrSnO3 phosphor. Journal of Alloys and Compounds, 2013, 581, 101-108.	5.5	33
11	Solid state synthesis of SrAl2O4:Mn2+ co-doped with Nd3+ phosphor and its optical properties. Journal of Luminescence, 2013, 144, 128-132.	3.1	31
12	Photoluminescence investigations of Li2SiO3:Ln (Ln=Er3+, Eu3+, Dy3+, Sm3+) phosphors. Journal of Luminescence, 2012, 132, 1597-1602.	3.1	30
13	Synthesis and Luminescence Properties of Trivalent Rare-Earth Element-Doped Calcium Stannate Phosphors. Spectroscopy Letters, 2014, 47, 630-641.	1.0	30
14	Synthesis and competitive luminescence quenching mechanism of Ca3Al2O6:Ln3+ (Ln: Dy and Sm) phosphors. Materials Research Bulletin, 2020, 132, 111010.	5.2	30
15	Spectral emission of rare earth (Tb, Eu, Dy) doped Y2Sn2O7 phosphors. Journal of Luminescence, 2013, 143, 653-656.	3.1	28
16	Cathodoluminescence and thermoluminescence of ZnB2O4:Eu3+ phosphors prepared via wet-chemical synthesis. Ceramics International, 2019, 45, 4918-4925.	4.8	27
17	Luminescence characterization of cerium doped yttrium gadolinium aluminate phosphors. Optical Materials, 2012, 34, 1921-1925.	3.6	26
18	Modelling and Optimization of Uranium (VI) Ions Adsorption Onto Nano-ZnO/Chitosan Bio-composite Beads with Response Surface Methodology (RSM). Journal of Polymers and the Environment, 2018, 26, 2300-2310.	5.0	26

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19	Catholuminescence properties of rare earth doped CaSnO3 phosphor. Applied Radiation and Isotopes, 2015, 99, 138-145.	1.5	24
20	Eu3+ and Dy3+ doped La2MoO6 and La2Mo2O9 phosphors: Synthesis and luminescence properties. Materials Research Bulletin, 2020, 123, 110723.	5.2	23
21	Visible to infrared low temperature luminescence of Er3+, Nd3+ and Sm3+ in CaSnO3 phosphors. Applied Radiation and Isotopes, 2015, 99, 69-76.	1.5	22
22	Luminescence studies of zinc borates activated with different concentrations of Ce and La under x-ray and electron excitation. Applied Radiation and Isotopes, 2017, 127, 35-40.	1.5	21
23	Thermoluminescence dose and heating rate dependence and kinetic analysis of ZnB 2 O 4 :0.05Dy 3+ phosphor. Nuclear Instruments & Methods in Physics Research B, 2018, 416, 50-54.	1.4	20
24	Luminescence behavior and Raman characterization of jade from Turkey. Applied Radiation and Isotopes, 2011, 69, 1299-1306.	1.5	19
25	Luminescence characteristics of Dy 3+ incorporated zinc borate powders. Journal of Luminescence, 2017, 188, 409-417.	3.1	19
26	Thermoluminescence behavior of Sm3+ activated ZnB2O4 phosphors synthesized using low temperature chemical synthesis method. Nuclear Instruments & Methods in Physics Research B, 2018, 428, 65-71.	1.4	19
27	Anomalous heating rate response of beta irradiated Sm3+ and Tb3+ doped BaAl2O4 phosphors. Journal of Alloys and Compounds, 2018, 764, 523-529.	5.5	18
28	Characterization and thermoluminescence behavior of beta irradiated NaBaBO3 phosphor synthesized by combustion method. Ceramics International, 2019, 45, 7011-7017.	4.8	17
29	Influence of laser excitation power on temperature-dependent luminescence behaviour of Ce- and Tb-incorporated BaMgAl10O17 phosphors. Radiation Physics and Chemistry, 2020, 168, 108617.	2.8	17
30	Structural and luminescence effects of Ga co-doping on Ce-doped yttrium aluminate based phosphors. Journal of Alloys and Compounds, 2016, 666, 447-453.	5.5	16
31	Cathodoluminescence properties of La2MoO6:Ln3+ (Ln: Eu, Dy, and Sm) phosphors. Applied Radiation and Isotopes, 2020, 166, 109434.	1.5	16
32	Thermoluminescence properties of beta particle irradiated Ca3Al2O6 phosphor relative to environmental dosimetry. Journal of Luminescence, 2020, 227, 117565.	3.1	16
33	Adsorption of thorium (IV) ions by metal ion doped ZnO nanomaterial prepared with combustion synthesis: Empirical modelling and process optimization by response surface methodology (RSM). Applied Radiation and Isotopes, 2021, 178, 109955.	1.5	16
34	Thermally stimulated luminescence glow curve structure of Î²â€irradiated CaB₄O₇:Dy. Luminescence, 2015, 30, 830-834.	2.9	15
35	Comparative studies on thermoluminescence characteristics of non-doped Mg2SiO4 prepared via a solid-state reaction technique and wet-chemical method: An unusual heating rate dependence. Journal of Alloys and Compounds, 2019, 795, 261-268.	5.5	14
36	Enhancing the blue luminescence behaviour of the Li co-doped novel phosphor ZnB2O4: Tm3+. Journal of Alloys and Compounds, 2020, 838, 155587.	5.5	14

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37	Enhancement of the luminescence intensity by co-doping Mn2+ into Er3+-doped SrAl2O4. Journal of Luminescence, 2015, 163, 17-20.	3.1	13
38	Synthesis and influence of ultrasonic treatment on luminescence of Mn incorporated ZnS nanoparticles. Optical Materials, 2017, 72, 533-539.	3.6	13
39	Luminescence and micro-Raman investigations on inclusions of unusual habit in chrysoprase from Turkey. Journal of Luminescence, 2012, 132, 1750-1758.	3.1	12
40	Preparation and cathodoluminescence characteristics of rare earth activated BaAl2O4 phosphors. Applied Radiation and Isotopes, 2018, 139, 34-39.	1.5	12
41	Synthesis and photoluminescence characteristics of a novel Eu and Tb doped Li2MoO4 phosphor. Applied Radiation and Isotopes, 2021, 175, 109820.	1.5	12
42	Thermoluminescence study and evaluation of trapping parameters of samarium doped barium silicate phosphor. Journal of Asian Ceramic Societies, 2021, 9, 291-303.	2.3	12
43	Thermoluminescence glow curve analysis and kinetic parameters of Eu doped Li2MoO4 ceramic phosphors. Ceramics International, 2022, 48, 19258-19265.	4.8	12
44	Structural and luminescence characterization of Ce3+ and Mn2+ co-activated zinc silicate nanocrystal obtained by gel combustion synthesis. Materials Research Bulletin, 2021, 133, 111025.	5.2	11
45	Radioluminescence study of rare earth doped some yttrium based phosphors. Optical Materials, 2012, 34, 1958-1961.	3.6	10
46	Cathodoluminescence and photoluminescence properties of Dy doped La2CaB10O19 phosphor. Optical Materials, 2020, 110, 110531.	3.6	10
47	Synthesis and photoluminescence characteristics of Dy incorporated MoO3 phosphor: Suppression concentration quenching. Applied Radiation and Isotopes, 2020, 164, 109321.	1.5	10
48	Thermoluminescence characteristics of a novel Li2MoO4 phosphor: Heating rate, dose response and kinetic parameters. Radiation Physics and Chemistry, 2022, 194, 110025.	2.8	10
49	Characterization of a Green-Emitting Copper-Doped Barium Aluminate Phosphor. Spectroscopy Letters, 2014, 47, 504-511.	1.0	9
50	Studies on luminescence from a ceriumâ€doped strontium stannate phosphor. Luminescence, 2015, 30, 457-464.	2.9	9
51	Microstructural and Radioluminescence Characteristics of Nd3+ Doped Columbite-Type SrNb2O6 Phosphor. Journal of Fluorescence, 2017, 27, 973-979.	2.5	9
52	The role of calcination temperature on structural and luminescence behaviour of novel apatite-based Ca2Y 8(SiO4)6O2: Ce3+,Tb3+ phosphors. Applied Radiation and Isotopes, 2017, 130, 188-197.	1.5	9
53	Thermoluminescence glow curve analysis and evaluation of trapping parameters of dysprosium doped lanthanum calcium borate La2CaB10O19. Nuclear Instruments & Methods in Physics Research B, 2021, 489, 58-68.	1.4	9
54	Thermoluminescence studies of Nd doped Bi4Ge3O12 crystals irradiated by UV and beta sources. Applied Radiation and Isotopes, 2016, 113, 18-21.	1.5	8

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55	Thermoluminescence behaviour of europium doped magnesium silicate after beta exposure. Optical Materials, 2020, 104, 109852.	3.6	8
56	Novel Dy incorporated Ca3Y2B4O12 phosphor: Insights into the structure, broadband emission, photoluminescence and cathodoluminescence characteristics. Applied Radiation and Isotopes, 2022, 185, 110257.	1.5	8
57	Absorption and photoluminescence spectroscopy of Er³⁺-doped SrAl₂O₄ceramic phosphors. Philosophical Magazine Letters, 2012, 92, 194-201.	1.2	7
58	Optical properties of Tb implantation into ZnO. Surface and Coatings Technology, 2007, 201, 8534-8538.	4.8	6
59	Radioluminescence and thermoluminescence of albite at low temperature. Radiation Measurements, 2011, 46, 655-663.	1.4	6
60	Optical spectroscopy of the Ce-doped multicomponent garnets. Applied Radiation and Isotopes, 2016, 114, 114-120.	1.5	6
61	Preparation and characterization of Yttrium based luminescence phosphors. Optical Materials, 2017, 74, 150-158.	3.6	6
62	Thermoluminescence glow curve analysis of Ca3Y2B4O12 phosphor prepared using combustion method. Applied Radiation and Isotopes, 2022, 186, 110299.	1.5	5
63	Thermoluminescence characterization and kinetic parameters of Dy3+ activated Ca3Y2B4O12. Nuclear Instruments & Methods in Physics Research B, 2022, 525, 34-40.	1.4	5
64	Cathodoluminescence and Raman characteristics of CaSO4:Tm3+, Cu phosphor. Journal of Luminescence, 2015, 161, 358-362.	3.1	4
65	Visible to infrared low temperature photoluminescence of rare earth doped bismuth germanate crystals. Applied Radiation and Isotopes, 2016, 111, 86-91.	1.5	4
66	Synthesis and enhanced photoluminescence of the BaSiF6:Dy3+ phosphors by Li+ doping via combustion method. Journal of Luminescence, 2022, 241, 118512.	3.1	4
67	Comprehensive study of photoluminescence and cathodoluminescence of Eu and Tb doped Mg2SiO4 prepared via a solid-state reaction technique. Optical Materials, 2020, 100, 109698.	3.6	3
68	Synthesis and beta particle excited thermoluminescence of BaSiF6 phosphor. Applied Radiation and Isotopes, 2022, 181, 110075.	1.5	2