Andrzej Suchocki

List of Publications by Year
in descending order

278	4,329	126708	197535
papers	citations	33	49
		h-index	g-index

285	285	285	3246
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Spin-Forbidden Transitions in the Spectra of Transition Metal Ions and Nephelauxetic Effect. ECS Journal of Solid State Science and Technology, 2016, 5, R3067-R3077.	0.9	197
2	Double perovskite LiLaMgWO6:Eu3+ novel red-emitting phosphors for solid sate lighting: Synthesis, structure and photoluminescent properties. Ceramics International, 2017, 43, 2720-2729.	2.3	145
3	Lattice Parameters and Stability of the Spinel Compounds in Relation to the Ionic Radii and Electronegativities of Constituting Chemical Elements. Inorganic Chemistry, 2014, 53, 5088-5099.	1.9	112
4	Photoluminescence studies of Mn4+ions in YAlO3crystals at ambient and high pressure. Journal of Physics Condensed Matter, 2006, 18, 11385-11396.	0.7	87
5	Mn-doped YAlO3 crystal: a new potential TLD phosphor. Nuclear Instruments & Methods in Physics Research B, 2005, 227, 545-550.	0.6	74
6	Low temperature thermoluminescence properties of Eu2+ and R3+ doped CaAl2O4. Journal of Alloys and Compounds, 2004, 380, 4-8.	2.8	65
7	CdF2:In: A novel material for optically written storage of information. Applied Physics Letters, 1995, 67, 31-33.	1.5	64
8	Spectroscopy ofMn4+-doped Ca-substituted gadolinium gallium garnet. Physical Review B, 1992, 46, 3219-3227.	1.1	63
9	Auger effect in theMn2+luminescence ofCdF2:(Mn,Y) crystals. Physical Review B, 1989, 39, 7905-7916.	1.1	60
10	Crystal structure of GdFeO3-type rare earth gallates and aluminates. Journal of Alloys and Compounds, 1999, 291, 57-65.	2.8	54
11	Spectroscopy of near-stoichiometricLiNbO3:MgO,Crcrystals under high pressure. Physical Review B, 2000, 62, 10802-10811.	1.1	54
12	Influence of high pressure on the luminescence transitions of Mn4+-doped gadolinium gallium garnet. Journal of Physics Condensed Matter, 2005, 17, 7185-7197.	0.7	52
13	Luminescence enhancement in the Sr2ZnW1â˜'xMoxO6:Eu3+,Li+ phosphor for near ultraviolet based solid state lighting. Journal of Alloys and Compounds, 2016, 685, 917-926.	2.8	52
14	Multimodal Non-Contact Luminescence Thermometry with Cr-Doped Oxides. Sensors, 2020, 20, 5259.	2.1	50
15	Pressure-induced changes in the energetic structure of the 3d3 ions in solid matrices. Journal of Luminescence, 2007, 125, 97-103.	1.5	47
16	Influence of Bi3+ ions on the amplification of 1.3 Î¼m emission of Pr3+ ions in lead silicate glasses for the applications in second telecom window communications. Journal of Luminescence, 2017, 182, 312-322.	1.5	46
17	High pressure spectroscopy of LLGG doped with Cr 3+. Journal of Luminescence, 1994, 60-61, 223-226.	1.5	44
18	Influence of color centers on optical and lasing properties of the gadolinium gallium garnet single crystals doped with Nd3+ ions. Journal of Luminescence, 1999, 82, 9-15.	1.5	44

#	Article	IF	Citations
19	Energy level schemes of f electronic configurations for the di-, tri-, and tetravalent lanthanides and actinides in a free state. Journal of Luminescence, 2016, 170, 369-374.	1.5	43
20	Afterglow, TL and OSL properties of Mn2+-doped ZnGa2O4 phosphor. Scientific Reports, 2019, 9, 9544.	1.6	43
21	Characterization of YAlO3:Mn2+ thermoluminescent detectors. Radiation Measurements, 2010, 45, 516-518.	0.7	41
22	Pressure-induced luminescence of cerium-doped gadolinium gallium garnet crystal. Physical Review B, 2012, 85, .	1.1	40
23	Electronic structure of Ce3+ multicenters in yttrium aluminum garnets. Applied Physics Letters, 2013, 102, .	1.5	40
24	Crystal structure of LaGaO3 and (La,Gd)GaO3 solid solutions. Journal of Alloys and Compounds, 1999, 286, 213-218.	2.8	39
25	Growth and Induced Color Centers in YAlO3-Nd Single Crystals. Physica Status Solidi A, 2001, 184, 239-250.	1.7	39
26	Amplification of green emission of Ho3+ ions in lead silicate glasses by sensitizing with Bi3+ ions. Journal of Alloys and Compounds, 2016, 683, 114-122.	2.8	38
27	Luminescence spectroscopy of Cr³⁺ ions in bulk single crystalline Î²-Ga₂O₃. Journal Physics D: Applied Physics, 2020, 53, 354001.	1.3	38
28	Laser-induced grating spectroscopy of Cr3+-doped Gd3Ga5O12 and Gd3Sc2Ga3O12 crystals. Chemical Physics, 1988, 128, 59-71.	0.9	37
29	Displacement Defect Formation in Complex Oxide Crystals under Irradiation. Physica Status Solidi A, 2000, 177, 349-366.	1.7	37
30	Improvement of ZnO thin film properties by application of ZnO buffer layers. Journal of Crystal Growth, 2007, 308, 93-98.	0.7	37
31	Recombination processes in Yb-activated ZnS. Physical Review B, 1989, 40, 1748-1755.	1.1	36
32	Nd3+-doped yttrium aluminum garnet crystal as a near-infrared pressure sensor for diamond anvil cells. Applied Physics Letters, 2006, 88, 234102.	1.5	36
33	Low-temperature high-pressure spectroscopy of lanthanum lutetium gallium garnet crystals doped withCr3+andNd3+. Physical Review B, 2002, 65, .	1.1	35
34	Optically stimulated luminescence of for radiation dosimetry. Radiation Measurements, 2007, 42, 625-627.	0.7	35
35	Hole Trapping Process and Highly Sensitive Ratiometric Thermometry over a Wide Temperature Range in Pr³⁺-Doped Na₂La₂Ti₃O₁₀ Layered Perovskite Microcrystals. Journal of Physical Chemistry A, 2019, 123, 4021-4033.	1.1	35
36	Spectroscopic and crystallographic studies of YAG:Pr4+ single crystals. Journal of Alloys and Compounds, 1998, 275-277, 361-364.	2.8	34

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37	Photo and gamma induced color centers in the YAlO3 and YAlO3:Nd single crystals. Optical Materials, 1999, 12, 75-81.	1.7	34
38	The chemical vapour transport growth of ZnO single crystals. Journal of Alloys and Compounds, 2004, 371, 150-152.	2.8	34
39	Comparative first-principles calculations of the electronic, optical, elastic and thermodynamic properties of XCaF3 (XÂ=ÂK, Rb, Cs) cubic perovskites. Materials Chemistry and Physics, 2017, 188, 39-48.	2.0	34
40	Impact ionization mechanism in rare earth activated sulfides. Applied Physics Letters, 1990, 56, 195-197.	1.5	31
41	Laserâ€induced grating spectroscopy of cadmium telluride. Journal of Applied Physics, 1989, 66, 1359-1365.	1.1	30
42	Evidence of multicenter structure of cerium ions in gadolinium gallium garnet crystals studied by infrared absorption spectroscopy. Physical Review B, 2013, 87, .	1.1	30
43	Four-wave-mixing measurements of energy migration and radiationless relaxation processes in alexandrite crystals. Physical Review B, 1987, 35, 5830-5840.	1.1	29
44	Colour centers in doped Gd3Ga5O12 and Y3Al5O12 laser crystals. Journal of Alloys and Compounds, 2000, 300-301, 395-397.	2.8	29
45	Quantum efficiency of the down-conversion process in Bi3+â€“Yb3+ co-doped Gd2O3. Journal of Luminescence, 2018, 196, 169-173.	1.5	29
46	Empirical relation between covalence and the energy position of the Ni2+ 1E state in octahedral complexes. Journal of Luminescence, 2014, 148, 338-341.	1.5	28
47	Synthesis and luminescent properties of prospective Ce3+ doped silicate garnet phosphors for white LED converters. Journal of Luminescence, 2017, 192, 328-336.	1.5	28
48	Stable and transient color centers in Gd3Ga5O12 crystals. Crystal Research and Technology, 2004, 39, 788-795.	0.6	27
49	Radiation and thermally induced effects in YAlO3:Mn crystals. Journal of Luminescence, 2004, 109, 39-49.	1.5	27
50	Role of conduction-band filling in the dependence of InN photoluminescence on hydrostatic pressure. Physical Review B, 2007, 76, .	1.1	27
51	Rare-earth antisites in lutetium aluminum garnets: Influence on lattice parameter and Ce3+ multicenter structure. Optical Materials, 2014, 36, 1515-1519.	1.7	27
52	Quantum efficiency of the down-conversion process in Bi3+â€“Yb3+ and Ce3+â€“Yb3+ co-doped garnets. Solar Energy Materials and Solar Cells, 2018, 185, 240-251.	3.0	27
53	Optical spectroscopy and four-wave mixing in emerald. Physical Review B, 1988, 38, 9996-10006.	1.1	26
54	Technological approaches for improving thermoluminescent properties of the Czochralski-grown YAlO3:Mn crystals. Journal of Crystal Growth, 2008, 310, 3219-3223.	0.7	25

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55	Luminescence ofLiNbO3:MgO,Crcrystals under high pressure. Physical Review B, 1999, 60, 7707-7710.	1.1	24
56	Luminescence emission features of Nd 3+ ions in PbOâ€“Sb 2 O 3 glasses mixed with Sc 2 O 3 /Y 2 O 3 /HfO 2. Optical Materials, 2017, 69, 181-189.	1.7	24
57	The structural and optical properties of ZnO bulk and nanocrystals under high pressure. High Pressure Research, 2012, 32, 354-363.	0.4	23
58	Non equilibrium anisotropic excitons in atomically thin ReS ₂. 2D Materials, 2019, 6, 015012.	2.0	23
59	Excitonic mechanism of luminescence excitation of rare-earths and transition metals in solids. Journal of Luminescence, 1991, 48-49, 23-28.	1.5	22
60	Nephelauxetic effect in luminescence of Cr3+-doped lithium niobate and garnets. Journal of Luminescence, 2003, 102-103, 571-574.	1.5	22
61	Optical observation of the recharging processes of manganese ions in YAlO3:Mn crystals under radiation and thermal treatment. Journal of Physics Condensed Matter, 2006, 18, 5389-5403.	0.7	22
62	Probability ofYb3+4fâ^'4ftransitions in gadolinium gallium garnet crystals at high hydrostatic pressures. Physical Review B, 2007, 75, .	1.1	22
63	Spectroscopic and crystal field studies of YAlO₃single crystals doped with Mn ions. Journal of Physics Condensed Matter, 2009, 21, 025404.	0.7	22
64	Crystal structure and luminescent properties of nanocrystalline YAG and YAG:Nd synthesized by solâ€“gel method. Optical Materials, 2012, 34, 1984-1989.	1.7	22
65	Luminescence and excited state dynamics of Bi3+ centers in Y2O3. Journal of Luminescence, 2015, 167, 268-277.	1.5	22
66	Correlation between electrical conductivity and luminescence properties in Î²-Ga2O3:Cr3+ and Î²-Ga2O3:Cr,Mg single crystals. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2021, 39, .	0.9	22
67	Room-temperature holographic grating recording in CdF2:Ga. Applied Physics Letters, 1997, 70, 2934-2936.	1.5	21
68	Universality of the Bond-Breaking Mechanism in Defect Bistability: Observation of Open Volume in the Deep States of In and Ga inCdF2. Physical Review Letters, 1999, 82, 3276-3279.	2.9	21
69	Growth and properties of YAlO3:Nd single crystals. Journal of Crystal Growth, 2000, 209, 874-882.	0.7	21
70	Radiation displacement defect formation in some complex oxide crystals. Nuclear Instruments & Methods in Physics Research B, 2000, 166-167, 40-46.	0.6	21
71	Solâ€“gel synthesis and luminescent properties of nanocrystalline YAP:Mn. Optical Materials, 2012, 34, 604-608.	1.7	21
72	Broadband down-conversion in Bi3+â€“Yb3+-codoped yttrium and yttriumâ€“aluminum oxides. Materials Chemistry and Physics, 2014, 143, 622-628.	2.0	21

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73	Influence of Y2O3, Sc2O3 and HfO2 dopants on green emission of Er3+ ions in PbOâ€“Sb2O3 glasses. Journal of Luminescence, 2017, 192, 443-451.	1.5	21
74	Crystal structure and luminescence studies of microcrystalline GGG:Bi3+ and GGG:Bi3+,Eu3+ as a UV-to-VIS converting phosphor for white LEDs. Journal of Luminescence, 2019, 213, 278-289.	1.5	21
75	Dominant shallow donors in zinc oxide layers obtained by low-temperature atomic layer deposition: Electrical and optical investigations. Acta Materialia, 2014, 65, 69-75.	3.8	20
76	Tunable white light by varying excitations in yttrium alumino bismuth borosilicate glasses co-doped with Dy3+-Eu3+ for cool WLED applications. Journal of Non-Crystalline Solids, 2019, 513, 167-182.	1.5	20
77	Luminescence characteristics of Er3+ ions in ZnO-Ta2O5/Nb2O5/ZrO2-B2O3 glass system- A case study of energy transfer from ZnO to Er3+ ions. Optical Materials, 2018, 86, 87-94.	1.7	19
78	Holographic Recording with the Use of Bistable Centers in CdF₂. Acta Physica Polonica A, 1995, 88, 1010-1012.	0.2	19
79	Optical properties of zoisite. Physical Review B, 1994, 50, 12297-12300.	1.1	18
80	Nephelauxetic effect in LiNbO3:Cr3+ crystals. Applied Physics Letters, 2002, 81, 442-444.	1.5	18
81	Influence of hydrostatic pressure on radiative transition probability of the intrashell4ftransitions inYb3+ions in lithium niobate crystals. Physical Review B, 2005, 72, .	1.1	18
82	Spectroscopic properties of Mn4+ ions in SrLaAlO4. Optical Materials, 2013, 35, 1664-1668.	1.7	18
83	Time-resolved OSL studies of YAlO3:Mn2+ crystals. Radiation Measurements, 2016, 94, 18-22.	0.7	18
84	Growth and luminescent properties of single crystalline films of Ce3+ doped Pr1â^'xLuxAlO3 and Gd1â^'xLuxAlO3 perovskites. Journal of Crystal Growth, 2017, 457, 220-226.	0.7	18
85	Micro-Raman studies of strain in bulk GaN crystals grown by hydride vapor phase epitaxy on ammonothermal GaN seeds. Japanese Journal of Applied Physics, 2019, 58, SCCB32.	0.8	18
86	Spectroscopy and four-wave mixing in Lisub4Ge5O12:Mn4+crystals. Physical Review B, 1987, 36, 6729-6734.	1.1	17
87	Laser-induced grating spectroscopy of alexandrite crystals. Physical Review B, 1988, 38, 6227-6245.	1.1	17
88	Structural and spectroscopic properties of Mn-doped YAlO3ceramics. Journal of Physics Condensed Matter, 2008, 20, 095204.	0.7	17
89	Zinc oxide grown by atomic layer deposition - a material for novel 3D electronics. Physica Status Solidi (B): Basic Research, 2010, 247, 1611-1615.	0.7	17
90	Time-resolved photoluminescence and excited state structure of Bi3+ center in YAlO3. Optical Materials, 2014, 36, 1705-1708.	1.7	17

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91	Identification of yellow luminescence centers in Be-doped GaN through pressure-dependent studies. Journal Physics D: Applied Physics, 2017, 50, 22LT03.	1.3	17
92	Spectroscopic properties and martensitic phase transition of Y4Al2O9:Ce single crystals under high pressure. Acta Materialia, 2019, 165, 346-361.	3.8	17
93	Optical and Luminescence Properties of YAlO3 -Tm Crystals. Crystal Research and Technology, 2001, 36, 1223.	0.6	16
94	Epitaxial growth of single crystalline film scintillating screens based on Eu³⁺ doped RAlO₃ (R = Y, Lu, Gd, Tb) perovskites. CrystEngComm, 2018, 20, 937-945.	1.3	16
95	Effect of Temperature and High Pressure on Luminescence Properties of Mn³⁺ Ions in Ca₃Ga₂Ge₃O₁₂ Single Crystals. Journal of Physical Chemistry C, 2021, 125, 5146-5157.	1.5	16
96	Photoinduced water splitting with oxotitanium tetraphenylporphyrin. Physical Chemistry Chemical Physics, 2014, 16, 15256-15262.	1.3	15
97	Ambient and high pressure spectroscopy of Ce^3+ doped yttrium gallium garnet. Optical Materials Express, 2015, 5, 1868.	1.6	15
98	Energy response of the TL detectors based on YAlO3:Mn crystals. Radiation Measurements, 2016, 90, 262-264.	0.7	15
99	Enhanced dual mode luminescence via energy transfer in Er3+, Yb3+ co-doped Î²-spodumene. Journal of Alloys and Compounds, 2021, 872, 159551.	2.8	15
100	High-pressure spectroscopy of LiNbO3:MgO,Cr3+ crystals. Journal of Luminescence, 2000, 87-89, 571-573.	1.5	14
101	Equation of state for gadolinium gallium garnet crystals: Experimental and computational study. Applied Physics Letters, 2009, 95.	1.5	14
102	Merging of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>4</mml:mn></mml:msup></mml:math>F<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn><mml:mo>/</mml:mo><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math>level states of Nd<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mrow><mml:mn>3</mml:mn><mml:mo>+</mml:mo></	1.1	14
103	Dosimetric properties of the 570AK thermoluminescence peak of YAlO3:Mn crystals. Radiation Measurements, 2011, 46, 494-497.	0.7	13
104	Optical properties of pure and Ce3+ doped gadolinium gallium garnet crystals and epitaxial layers. Journal of Luminescence, 2015, 164, 31-37.	1.5	13
105	Influence of hydrostatic pressure on the built-in electric field in ZnO/ZnMgO quantum wells. Journal of Applied Physics, 2016, 119, 215702.	1.1	13
106	Enhancement of the YAG:Ce,Yb down-conversion emission by plasmon resonance in Ag nanoparticles. Journal of Alloys and Compounds, 2019, 804, 202-212.	2.8	13
107	Spatial profiling of a luminescence impact excitation in an MS junction. Journal of Luminescence, 1981, 24-25, 889-892.	1.5	12
108	A method of excitation profiling in highâ€field electroluminescence. Applied Physics Letters, 1981, 39, 386-388.	1.5	12

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109	Near band-gap optical nonlinearities and bistability in Cd1â^'xMnxTe. Optical Materials, 2000, 14, 161-170.	1.7	12
110	Spectroscopy of lanthanum lutetium gallium garnet crystals doped with chromium. Journal of the Optical Society of America B: Optical Physics, 2003, 20, 577.	0.9	12
111	Spatial distribution of optical coloration in single crystalline LiNbO3 after high-temperature H2/air treatments. Optical Materials, 2017, 70, 106-115.	1.7	12
112	New Ce³⁺ doped Ca₂YMgScSi₃O₁₂ garnet ceramic phosphor for white LED converters. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1700016.	1.2	12
113	NIR and visible luminescence features of erbium doped Ga2S3â€"La2S3 glasses. Journal of Non-Crystalline Solids, 2018, 498, 380-385.	1.5	12
114	Picosecond two-beam coupling and polarization rotation by scalar gratings in undoped cadmium telluride at 1.064 Î¼m. Physical Review B, 1991, 43, 2228-2233.	1.1	11
115	Influence of stoichiometry on phase transition pressure of LiNbO3. Applied Physics Letters, 2006, 89, 261908.	1.5	11
116	Pressure coefficients of the photoluminescence of the IIâ€"VI semiconducting quantum dots grown by molecular beam epitaxy. Journal of Luminescence, 2012, 132, 1501-1506.	1.5	11
117	Time-resolved spectroscopy of Bi3+ centers in Y4Al2O9. Optical Materials, 2015, 46, 104-108.	1.7	11
118	High pressure studies of Eu²⁺ and Mn²⁺ doped NaScSi₂O₆ clinopyroxenes. RSC Advances, 2017, 7, 275-284.	1.7	11
119	Luminescent and scintillation properties of Ce 3+ doped Ca 2 RMgScSi 3 O 12 (R = Y, Lu) single crystalline films. Journal of Luminescence, 2018, 195, 362-370.	1.5	11
120	Effect of up-conversion luminescence in Er3+ doped phosphate glasses for developing Erbium-Doped Fibre Amplifiers (EDFA) and G-LED's. Optical Materials: X, 2019, 3, 100034.	0.3	11
121	Al₂O₃ co-doped with Cr³⁺ and Mn⁴⁺, a dual-emitter probe for multimodal non-contact luminescence thermometry. Dalton Transactions, 2021, 50, 14820-14831.	1.6	11
122	Photoluminescence and Thermoluminescence of the Oxygen-Deficient YAG, YAP, and YAM Phosphors. Acta Physica Polonica A, 2018, 133, 977-980.	0.2	11
123	Band Gap Engineering and Trap Depths of Intrinsic Point Defects in RAlO₃ (R = Y, La, Gd, Yb,) Tj ETQq1 1 0.784314 rgBT	1.5	11
124	Optical excitation and recombination mechanisms of Tb3+â€doped zinc sulphide thin films. Journal of Applied Physics, 1989, 66, 6048-6051.	1.1	10
125	Threeâ€center Auger excitation mechanism of ytterbium intrashell emission in ZnS. Applied Physics Letters, 1990, 57, 40-42.	1.5	10
126	High-pressure spectroscopy of C3+ doped MgOâ€"2.5Al2O3 non-stoichiometric green spinel. Journal of Alloys and Compounds, 2002, 341, 193-196.	2.8	10

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127	High-pressure-induced ferroelectric phase transition in theYb3+:Sr0.6Ba0.4Nb2O6crystal at liquid helium temperature. Physical Review B, 2006, 74, .	1.1	10
128	EPR Study of Cr3+ and Fe3+ Impurity Ions in Nominally Pure and Co2+-Doped YAlO3 Single Crystals. Applied Magnetic Resonance, 2009, 36, 371-380.	0.6	10
129	Spectroscopy of fâ€“f radiative transitions of Y b^{3 +}ions in ytterbium doped orthophosphates at ambient and high hydrostatic pressures. Journal of Physics Condensed Matter, 2010, 22, 225902.	0.7	10
130	Spectroscopy of ytterbium-doped InP under high hydrostatic pressure. Physical Review B, 2010, 81, .	1.1	10
131	Thermoluminescent properties of Mn-doped YAP synthesized by the solution combustion method. Optical Materials, 2014, 37, 125-131.	1.7	10
132	Metastability of Mn3+ in ZnO driven by strong d (Mn) intrashell Coulomb repulsion: Experiment and theory. Physical Review B, 2016, 94, .	1.1	10
133	3P0 â†' 1D2 non-radiative relaxation control via IVCT state in Pr3+-doped Na2Ln2Ti3O10 (Ln=La, Gd) micro-crystals with triple-layered perovskite structure. Journal of Luminescence, 2019, 213, 510-518.	1.5	10
134	High-Pressure Low-Temperature Optical Studies of BaWO₄:Ce,Na Crystals. Inorganic Chemistry, 2019, 58, 5617-5629.	1.9	10
135	Localized exciton luminescence in YVO4:Bi3+. Optical Materials, 2019, 89, 480-487.	1.7	10
136	Structural, optical and magnetic properties of Y_{3â^'0.02â^'x}Er_{0.02}Yb _x Al₅O₁₂ (0Â<ÂxÂ<Â0.20) nanocrystals: effect of Yb content. Nanotechnology, 2020, 31, 225711.	1.3	10
137	Photoluminescence of the undoped and Bi3+ - Doped Ca3Ga2Ge3O12 garnets. Journal of Luminescence, 2021, 235, 118065.	1.5	10
138	Energy transfer in GGG:Yb3+,Ho3+ crystals. Journal of Alloys and Compounds, 1995, 225, 559-563.	2.8	9
139	Anomaly of NdGaO3single crystal dielectric properties in the temperature range 80â€“300 K. Phase Transitions, 1999, 70, 57-63.	0.6	9
140	Nephelauxetic effect in high-pressure luminescence of transition-metal ion dopants. Journal of Luminescence, 2007, 125, 266-270.	1.5	9
141	Ab initio calculations of structural, electronic, optical, and elastic properties of pure and Yb-doped InP at varying pressure. Journal of Applied Physics, 2010, 108, 103520.	1.1	9
142	Theoretical studies of the pressure-induced zinc-blende to cinnabar phase transition in CdTe and thermodynamical properties of each phase. Materials Chemistry and Physics, 2013, 140, 216-221.	2.0	9
143	Observation of A1g Raman mode splitting in few layer black phosphorus encapsulated with hexagonal boron nitride. Nanoscale, 2017, 9, 19298-19303.	2.8	9
144	Shape control over microwave hydrothermally grown Y2O3:Eu by europium concentration adjustment. Journal of Rare Earths, 2019, 37, 1206-1212.	2.5	9

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145	Locating impurity and defect levels in the host band gap by first-principles calculations: Pure and Ce3+-doped YAlO3. Optical Materials, 2021, 113, 110843.	1.7	9
146	Carbon and Manganese in Semi-Insulating Bulk GaN Crystals. Materials, 2022, 15, 2379.	1.3	9
147	High-pressure and magneto-optical studies of Cr-related defects in the lithium-rich<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">Li</mml:mi><mml:mi mathvariant="normal">Nb</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mo>:</mml:mo><mml:mi mathvariant="normal">Cr</mml:mi><mml:mo>,</mml:mo><mml:mi mathvariant="normal">Mg</mml:mi></mml:mrow></mml:math>crystal. Physical Review B, 2007, 76, .	1.1	8
148	Equation of state for Eu-doped SrSi2O2N2. Journal of Chemical Physics, 2014, 141, 014705.	1.2	8
149	Luminescent properties of ZnO and ZnMgO epitaxial layers under high hydrostatic pressure. Journal of Alloys and Compounds, 2016, 672, 125-130.	2.8	8
150	Luminescence Spectra of ZnAl₂O₄:Cr³⁺Spinel Nanopowders. Acta Physica Polonica A, 2003, 104, 581-587.	0.2	8
151	A comparison of the spectroscopic properties of Eu3+â€doped fluoride and oxide glasses under highâ€power, picosecondâ€pulse excitation. Journal of Applied Physics, 1988, 63, 861-870.	1.1	7
152	Growth and Characterization of (Cd, Mn)Te. IEEE Transactions on Nuclear Science, 2013, 60, 3805-3814.	1.2	7
153	Titanyl Phthalocyanine as a Water Photooxidation Agent. Journal of Physical Chemistry C, 2015, , 150611081346002.	1.5	7
154	Solid-state and solar sintering of YAP:Mn,Hf ceramics applicable for thermoluminescent dosimetry. Optical Materials, 2015, 45, 246-251.	1.7	7
155	Spectroscopic study of radiative intra-configurational 4fâ†'4f transitions in Yb3+-doped materials using high hydrostatic pressure. Journal of Luminescence, 2016, 169, 507-515.	1.5	7
156	Growth and optical properties of ZnWO4 single crystals pure and doped with Ca and Eu. Journal of Crystal Growth, 2017, 457, 117-121.	0.7	7
157	Four-wave mixing spectroscopy of Cr-doped laser crystals. Journal of Luminescence, 1987, 38, 250-251.	1.5	6
158	Deep Rare Earth (RE) ions related energy levels in ZnS. Journal of Crystal Growth, 1990, 101, 435-438.	0.7	6
159	Contribution of secondâ€harmonic generation to the creation of free carriers in CdTe single crystals. Applied Physics Letters, 1990, 56, 1632-1634.	1.5	6
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