

Serban Georgescu

List of Publications by Year in descending order

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papers

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51
all docs

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docs citations

51
times ranked

589
citing authors

#	ARTICLE	IF	CITATIONS
1	High-resolution optical spectroscopy of YAG:Nd: A test for structural and distribution models. Physical Review B, 1995, 51, 8-17.	1.1	131
2	On the dynamics of population inversion for $3\ \mu\text{m}$ Er/sup 3+/ lasers. IEEE Journal of Quantum Electronics, 1993, 29, 426-434.	1.0	72
3	Cooperative process in Y3Al5O12:Er3+ crystals. Soviet Journal of Quantum Electronics, 1986, 16, 274-276.	0.1	62
4	Energy transfer between Nd3+ ions in YAG. Optics Communications, 1986, 60, 59-63.	1.0	47
5	Concentration effects on the up-conversion from the level of Er3+ in YAG. Optics Communications, 1991, 81, 186-192.	1.0	44
6	Many-body energy-transfer processes between Er3+ ions in yttrium aluminum garnet. Physical Review B, 1990, 41, 10923-10932.	1.1	43
7	Effects of energy transfer on quantum efficiency of YAG:Nd. Journal of Applied Physics, 1989, 66, 3792-3797.	1.1	35
8	Ultraviolet and visible up-conversion luminescence of Er3+/Yb3+ co-doped CaF2 nanocrystals in sol-gel derived glass-ceramics. Journal of Luminescence, 2013, 143, 150-156.	1.5	35
9	Mechanisms of energy transfer between Nd3+ ions in YAG. Journal of Luminescence, 1987, 39, 35-43.	1.5	34
10	Excited-state-absorption in low concentrated Er:YAG crystals for pulsed and cw pumping. Journal of Luminescence, 2001, 93, 281-292.	1.5	30
11	ESA processes responsible for infrared pumped, green and violet luminescence in low-concentrated Er: YAG. Journal of Luminescence, 2003, 101, 87-99.	1.5	22
12	Spectroscopic characteristics of langasite (La3Ga5SiO14) and langatate (La3Ga5.5Ta0.5O14) crystals doped with Eu3+. Optical Materials, 2008, 30, 1007-1012.	1.7	22
13	Er:YAG three-micron laser: performances and limits. IEEE Journal of Selected Topics in Quantum Electronics, 2005, 11, 682-689.	1.9	20
14	Infrared-excited bright green and red luminescence in La3Ga5.5Ta0.5O14 doped with erbium and ytterbium. Physica B: Condensed Matter, 2012, 407, 1124-1127.	1.3	19
15	The hyperfine structure of U5+ in NaF and LiF single crystals. Journal of Physics C: Solid State Physics, 1976, 9, 2619-2626.	1.5	17
16	Upconversion luminescence in langatate ceramics doped with Tm3+ and Yb3+. Journal of Luminescence, 2014, 154, 74-79.	1.5	17
17	Judd-Ofelt analysis of Ho3+ doped in ceramic CaSc2O4. Journal of Luminescence, 2015, 162, 174-179.	1.5	17
18	Effects of nearest-neighbor pairs on the energy transfer in Nd:YAG. Applied Physics Letters, 1991, 59, 905-907.	1.5	16

#	ARTICLE	IF	CITATIONS
19	Upconversion from the 4I13/2 and 4I11/2 levels in Er:YAG. Journal of Luminescence, 2005, 114, 43-52.	1.5	15
20	Juddâ€“Ofelt and energy-transfer analysis of Er ³⁺ doped in CaSc ₂ O ₄ ceramic samples. Journal of Luminescence, 2015, 167, 186-192.	1.5	15
21	Violet and near-ultraviolet upconversion luminescence in La ₃ Ga _{5.5} Ta _{0.5} O ₁₄ codoped with Er ³⁺ and Yb ³⁺ . Physica B: Condensed Matter, 2013, 413, 55-58.	1.3	14
22	Q-switch regime of 3- $\frac{1}{4}$ µm Er:YAG lasers. IEEE Journal of Quantum Electronics, 1998, 34, 1031-1040.	1.0	13
23	Peculiarities of the Ho ³⁺ â†“Yb ³⁺ energy transfer in CaSc ₂ O ₄ :Ho:Yb. Journal of Luminescence, 2014, 154, 142-147.	1.5	13
24	Juddâ€“Ofelt analysis of Tm ³⁺ doped in CaSc ₂ O ₄ ceramic samples. Journal of Luminescence, 2015, 166, 130-136.	1.5	13
25	Intrinsic limits of the efficiency of erbium 3- $\frac{1}{4}$ µm lasers. IEEE Journal of Quantum Electronics, 2003, 39, 722-732.	1.0	12
26	Concentration quenching of the 4I _{9/2} level of Er ³⁺ in laser crystals. Optics Communications, 1994, 106, 75-78.	1.0	11
27	Population dynamics of the three-µm emitting level of Er ³⁺ in YAlO ₃ . Journal of Applied Physics, 1996, 80, 6610-6613.	1.1	11
28	Liver hemangioma revisited: current surgical indications, technical aspects, results. Hepato-Gastroenterology, 2001, 48, 770-6.	0.5	11
29	Excited state dynamics of Eu ³⁺ in the partially disordered crystals La ₃ Ga ₅ SiO ₁₄ and La ₃ Ga _{5.5} Ta _{0.5} O ₁₄ . Journal of Luminescence, 2008, 128, 741-743.	1.5	10
30	High-resolution spectroscopy of Nd ³⁺ in YAlO ₃ . Journal of Physics Condensed Matter, 1992, 4, L221-L224.	0.7	9
31	The effect of terminal level lifetime on three-micron laser emission in Er-doped crystals. Optics Communications, 1992, 92, 67-72.	1.0	9
32	Nanocrystalline Er:YAG thin films prepared by pulsed laser deposition: An electron microscopy study. Applied Surface Science, 2007, 253, 8268-8272.	3.1	9
33	Competition between green and infrared emission in Er:YLiF ₄ upconversion lasers. Optics Communications, 2011, 284, 388-397.	1.0	9
34	Energy transfer characteristics of the 4S _{3/2} level of Er ³⁺ in Yag. Optics Communications, 1989, 72, 209-213.	1.0	8
35	Luminescence of Eu-doped langanite nanopowders synthesized by a citrate solâ€“gel method. Journal of Alloys and Compounds, 2010, 507, 470-474.	2.8	8
36	Juddâ€“Ofelt analysis of Er ³⁺ ions in calcium lithium niobium gallium garnet. Journal of Luminescence, 2014, 147, 259-264.	1.5	8

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37	Judd-Ofelt analysis of Eu ³⁺ and Er ³⁺ doped in ceramic BaGd ₂ ZnO ₅ . Journal of Luminescence, 2018, 204, 261-268.	1.5	8
38	EPR of U ⁵⁺ in alkali fluorides with a new charge compensation mechanism. Physica Status Solidi (B): Basic Research, 1977, 83, 71-75.	0.7	7
39	Disorder effects in the fluorescence spectra of Eu ³⁺ in langatate (La ₃ Ga _{5.5} Ta _{0.5} O ₁₄) crystals. Optical Materials, 2007, 30, 212-215.	1.7	7
40	Excited-state absorption in erbium-doped calcium lithium niobium gallium garnet. Journal of Luminescence, 2014, 154, 553-558.	1.5	7
41	Judd-Ofelt analysis of ceramic La ₃ Ga _{5.5} Ta _{0.5} O ₁₄ doped with Er ³⁺ . Journal of Luminescence, 2015, 162, 168-173.	1.5	7
42	Phonon sidebands of Eu ³⁺ in BaGd ₂ ZnO ₅ . Journal of Luminescence, 2020, 228, 117597.	1.5	7
43	Combined mechanical-color center passive Q-switching of neodymium lasers. Optics Communications, 1983, 48, 203-206.	1.0	6
44	Intensity pump effects in the kinetics of level in ErAG. Optics Communications, 1998, 155, 61-67.	1.0	6
45	Judd-Ofelt analysis of Tm ³⁺ in La ₃ Ga _{5.5} Ta _{0.5} O ₁₄ ceramic with granular structure. Journal of Luminescence, 2015, 157, 35-38.	1.5	6
46	Comparative study of helical CT scan angiography, conventional arteriography, and intraoperative findings for the evaluation of living renal transplant donors. Transplantation Proceedings, 2001, 33, 2028-2029.	0.3	5
47	Energy transfer processes in Er-doped crystals. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 280-283.	0.8	4
48	The Influence of Pump Wavelength on Er:YAG Green-Emitting Laser Characteristics. IEEE Journal of Quantum Electronics, 2006, 42, 192-197.	1.0	4
49	Judd-Ofelt analysis of Er-doped CaSc ₂ O ₄ revisited. Journal of Luminescence, 2018, 199, 488-491.	1.5	3
50	Characteristics of concentration quenching of luminescence from the ⁴ S _{3/2} level of the Er ³⁺ ion in a (Y _{1-x} Er _x) ₃ Al ₂ O ₅ crystal. Soviet Journal of Quantum Electronics, 1988, 18, 1123-1125.	0.1	2
51	Pump wavelengths for an Er:YLiF ₄ green-emitting laser. Optical Materials, 2007, 30, 181-183.	1.7	2