

Gary W Burdick

List of Publications by Year in descending order

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59
papers

1,395
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331670

21
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345221

36
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60
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docs citations

60
times ranked

1008
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of the Jâ€“J Interaction of Excited States of the Rare-Earth Ion Pr ³⁺ on Magnetically Polarized Luminescence of Praseodymium-Yttrium Aluminum Garnet. <i>Physics of the Solid State</i> , 2019, 61, 735-741.	0.6	0
2	Investigation of J â€“ J â€œmixingâ€•mechanism influence on optical and magneto-optical properties of praseodymium yttrium-aluminum garnet PrYAG. <i>Journal of Luminescence</i> , 2019, 207, 339-345.	3.1	3
3	Growth and magneto-optical properties of anisotropic TbF ₃ single crystals. <i>Journal of Applied Physics</i> , 2017, 121, .	2.5	11
4	Optical and magneto-optical properties of terbiumâ€“scandiumâ€“aluminum and terbium-containing (gallates and aluminates) garnets. <i>Journal of Luminescence</i> , 2016, 176, 86-94.	3.1	20
5	Study of the line intensity in the optical and magneto-optical spectra in holmium-containing paramagnetic garnets. <i>Optical Materials</i> , 2016, 51, 42-49.	3.6	2
6	Magneto-optics of the luminescent transitions in Tb ³⁺ :Gd ₃ Ga ₅ O ₁₂ . <i>Optical Materials</i> , 2015, 46, 282-291.	3.6	4
7	Analysis of the optical and magneto-optical spectra of non-Kramers Pr ³⁺ (4f ²) in Y ₃ Al ₅ O ₁₂ complemented by crystal-field modelling. <i>Journal of Luminescence</i> , 2014, 145, 393-401.	3.1	17
8	Some interesting features of the Tb ³⁺ magneto-optics in the paramagnetic garnets. <i>Optical Materials</i> , 2014, 36, 1101-1111.	3.6	16
9	Magneto-optics of non-Kramers Eu ³⁺ ions in garnets: analysis complemented by crystal-field splitting modeling calculations. <i>Journal of Rare Earths</i> , 2013, 31, 837-842.	4.8	4
10	Crystal field and Zeeman splittings for energy levels of Nd ³⁺ in hexagonal AlN. <i>Optical Materials Express</i> , 2012, 2, 1176.	3.0	5
11	Analysis of the spectra of trivalent erbium in multiple sites of hexagonal aluminum nitride. <i>Optical Materials Express</i> , 2012, 2, 1186.	3.0	6
12	Magneto-optics of magnetic-dipole transitions in the rare-earth paramagnetic garnets. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2012, 112, 857-863.	0.6	1
13	Crystal-field analysis and Zeeman splittings of energy levels of Nd ³⁺ (4 <i>f</i> ³) in GaN. <i>Journal of Applied Physics</i> , 2011, 110, .	2.5	9
14	Magneto-optics of non-kramers eu ³⁺ (4 <i>f</i> ⁶) ions in garnets. , 2011, , .		0
15	Spectroscopic analysis of Eu ³⁺ in single-crystal hexagonal phase AlN. <i>Journal of Applied Physics</i> , 2011, 110, .	2.5	27
16	Specific features of Eu ³⁺ and Tb ³⁺ magneto-optics in gadolinium-gallium garnet (Gd ₃ Ga ₅ O ₁₂). <i>Journal of Rare Earths</i> , 2011, 29, 776-782.	4.8	22
17	Fabrication and absorption intensity analyses of Er ₂ O ₃ nanoparticles suspended in polymethyl methacrylate. <i>Journal of Applied Polymer Science</i> , 2011, 122, 289-295.	2.6	8
18	Spectra, energy levels, and symmetry assignments for Stark components of Eu ³⁺ (4f ⁶) in gadolinium gallium garnet (Gd ₃ Ga ₅ O ₁₂). <i>Journal of Luminescence</i> , 2011, 131, 1945-1952.	3.1	42

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19	Optical and magneto-optical properties of Ho ³⁺ :YGG. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 163-169.	1.5	11
20	Analyses of the ultraviolet spectra of Er ³⁺ in Er ₂ O ₃ and Er ³⁺ in Y ₂ O ₃ . <i>Journal of Applied Physics</i> , 2010, 108, .	2.5	31
21	Analyses of 4f ¹¹ Energy Levels and Transition Intensities Between Stark Levels of Er ³⁺ in Y ₃ Al ₅ O ₁₂ . <i>Spectroscopy Letters</i> , 2010, 43, 406-422.	1.0	26
22	Modeling optical spectra and Van Vleck paramagnetism in Er ³⁺ :YAlO ₃ . <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	17
23	Energy levels and symmetry assignments for Stark components of Ho ³⁺ (4f ¹⁰) in yttrium gallium garnet (Y ₃ Ga ₅ O ₁₂). <i>Journal of Applied Physics</i> , 2009, 106, .	2.5	21
24	Intensity parametrizations for electric-dipole transitions between Stark components in Er ³⁺ :Y ₃ Al ₅ O ₁₂ . <i>Journal of Alloys and Compounds</i> , 2009, 488, 632-637.	5.5	8
25	Spectroscopic and magnetic susceptibility analyses of the 7F _J and 5D ₄ energy levels of Tb ³⁺ (4f ⁸) in TbAlO ₃ . <i>Journal of Luminescence</i> , 2008, 128, 1271-1284.	3.1	51
26	Faraday effect and magnetic susceptibility analyses in TbAlO ₃ . <i>Journal of Applied Physics</i> , 2008, 104, .	2.5	10
27	Chapter 232 “ transitions. <i>Fundamental Theories of Physics</i> , 2007, 37, 61-98.	0.3	9
28	Simulation of two-photon absorption spectra of by direct calculation. <i>Journal of Luminescence</i> , 2006, 118, 205-219.	3.1	9
29	A complete energy level diagram for all trivalent lanthanide ions. <i>Journal of Solid State Chemistry</i> , 2005, 178, 448-453.	2.9	141
30	High-resolution measurements of the vacuum ultraviolet energy levels of trivalent gadolinium by excited state excitation. <i>Physical Review B</i> , 2005, 71, .	3.2	23
31	4f ⁿ → 4f ⁿ⁻¹ 5d transition emission of Ce ³⁺ , Pr ³⁺ , Nd ³⁺ , Er ³⁺ , and Tm ³⁺ in LiYF ₄ and YPO ₄ . <i>Physical Review B</i> , 2005, 71, .	3.2	61
32	Crystal field parametrizations for low symmetry systems. <i>Molecular Physics</i> , 2004, 102, 1141-1147.	1.7	39
33	Luminescence spectroscopy of high-energy 4f ¹¹ levels of Er ³⁺ in fluorides. <i>Molecular Physics</i> , 2003, 101, 1047-1056.	1.7	33
34	Judd-Ofelt parametrizations for lanthanides: sensitivity analysis of multiple local minima. <i>Molecular Physics</i> , 2003, 101, 909-916.	1.7	12
35	Electric-dipole 4f ⁿ → 4f ⁿ transition intensity parametrizations for lanthanides: sensitivity analysis of multiple local minima. <i>Journal of Alloys and Compounds</i> , 2002, 344, 327-331.	5.5	8
36	Many-body perturbation theory for spin-forbidden two-photon spectroscopy off-element compounds and its application to Eu ²⁺ in CaF ₂ . <i>Physical Review B</i> , 2002, 66, .	3.2	24

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37	4f ⁿ →4f ⁿ⁻¹ 5d transitions of the heavy lanthanides: Experiment and theory. <i>Physical Review B</i> , 2002, 65, .	3.2	205
38	Electric-dipole 4f ⁿ →4f ⁿ transition intensity parametrizations for lanthanides: an examination of multiple local minima. <i>Journal of Alloys and Compounds</i> , 2001, 323-324, 778-782.	5.5	3
39	Comparison between correlation crystal field calculations using extended basis sets and two-electron operators. <i>Journal of Alloys and Compounds</i> , 2001, 323-324, 636-639.	5.5	9
40	Ambiguities in the parametrization of 4f ⁿ →4f ⁿ electric-dipole transition intensities. <i>Physical Review B</i> , 1999, 59, R7789-R7792.	3.2	23
41	Application of the correlation-crystal-field delta-function model in analyses of Pr ³⁺ (4f ²) energy-level structures in crystalline hosts. <i>Chemical Physics</i> , 1998, 228, 81-101.	1.9	28
42	Correlation-crystal-field delta-function analysis of 4f ² (Pr ³⁺) energy-level structure. <i>Journal of Alloys and Compounds</i> , 1998, 275-277, 379-383.	5.5	8
43	Correlation-crystal-field 'delta-function' analysis of Pr ³⁺ (4f ²) energy-level structure. <i>Journal of Alloys and Compounds</i> , 1997, 250, 293-296.	5.5	9
44	Chirality-dependent two-photon absorption probabilities and circular dichroic line strengths: theory, calculation and measurement [<i>Chemical Physics</i> 208 (1996) 195-219]. <i>Chemical Physics</i> , 1996, 210, 515.	1.9	0
45	Polarization dependence of two-photon excitation spectra in the , , and transition regions of Gd ³⁺ in Na ₃ [Gd(C ₄ H ₄ O ₅) ₃] · 2NaClO ₄ · 6H ₂ O. <i>Journal of Luminescence</i> , 1996, 69, 355-368.	3.1	0
46	Electronic absorption spectra, optical line strengths, and crystal-field energy-level structure of Nd ³⁺ in hexagonal [Nd(H ₂ O) ₉](CF ₃ SO ₃) ₃ . <i>Chemical Physics</i> , 1995, 201, 321-342.	1.9	36
47	Direct calculation of lanthanide optical transition intensities Nd ³⁺ :YAG. <i>Journal of Alloys and Compounds</i> , 1995, 225, 115-119.	5.5	13
48	Energy-level and line-strength analysis of optical transitions between Stark levels in Nd ³⁺ :Y ₃ Al ₅ O ₁₂ . <i>Physical Review B</i> , 1994, 50, 16309-16325.	3.2	85
49	The relationship between perturbation theory and direct calculations of rare earth transition intensities. <i>Journal of Alloys and Compounds</i> , 1994, 207-208, 78-82.	5.5	11
50	Correlation contributions to two-photon lanthanide absorption intensities: direct calculations for Eu ²⁺ ions. <i>Journal of Physics Condensed Matter</i> , 1993, 5, L323-L328.	1.8	18
51	Two-photon-absorption transitions of Sm ²⁺ in SrF ₂ . <i>Physical Review B</i> , 1993, 47, 11712-11716.	3.2	9
52	Burdick and Reid reply. <i>Physical Review Letters</i> , 1993, 71, 3892-3892.	7.8	10
53	Many-body perturbation theory calculations of two-photon absorption in lanthanide compounds. <i>Physical Review Letters</i> , 1993, 70, 2491-2494.	7.8	23
54	A new contribution to spin-forbidden rare earth optical transition intensities: Analysis of all trivalent lanthanides. <i>Journal of Chemical Physics</i> , 1989, 91, 1511-1520.	3.0	47

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55	A new contribution to spin-forbidden rare earth optical transition intensities: Gd ³⁺ and Eu ³⁺ . Journal of Chemical Physics, 1988, 89, 1787-1797.	3.0	77
56	Polarizabilities of organic ions. Organic Mass Spectrometry, 1986, 21, 449-450.	1.3	1
57	Stable multiply charged molecular ions. Journal of Physics B: Atomic and Molecular Physics, 1986, 19, 629-641.	1.6	22
58	Structures, energetics and fragmentation pathways of C _n H ₂ ²⁺ carbocations. International Journal of Mass Spectrometry and Ion Processes, 1985, 64, 315-333.	1.8	15
59	Doubly charged ion mass spectra of organophosphorus compounds. Organic Mass Spectrometry, 1985, 20, 343-350.	1.3	12