

Czesław Rudowicz

List of Publications by Year in descending order

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204
papers

5,277
citations

101543

36
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114465

63
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210
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210
docs citations

210
times ranked

1446
citing authors

#	ARTICLE	IF	CITATIONS
1	Transformation relations for the conventional Okq and normalised O'kq Stevens operator equivalents with $k=1$ to 6 and $-k \cdot \frac{1}{2} \cdot \frac{1}{2} k$. Journal of Physics C: Solid State Physics, 1985, 18, 1415-1430.	1.5	298
2	SPIN-HAMILTONIAN FORMALISMS IN ELECTRON MAGNETIC RESONANCE (EMR) AND RELATED SPECTROSCOPIES. Applied Spectroscopy Reviews, 2001, 36, 11-63.	6.7	224
3	On standardization of the spin Hamiltonian and the ligand field Hamiltonian for orthorhombic symmetry. Journal of Chemical Physics, 1985, 83, 5192-5197.	3.0	188
4	Gyromagnetic factors and zero-field splitting of 2^3 terms of Cr^{3+} clusters with trigonal symmetry: Al_2O_3 , $CsMgCl_3$, and $CsMgBr_3$. Physical Review B, 1992, 46, 8974-8977.	3.2	188
5	Crystal field and microscopic spin Hamiltonians approach including spin-spin and spin-orbit interactions for d2 and d8 ions at low symmetry C_3 symmetry sites: V^{3+} in Al_2O_3 . Journal of Physics and Chemistry of Solids, 2003, 64, 1419-1428.	4.0	166
6	The generalization of the extended Stevens operators to higher ranks and spins, and a systematic review of the tables of the tensor operators and their matrix elements. Journal of Physics Condensed Matter, 2004, 16, 5825-5847.	1.8	137
7	Microscopic study of Cr^{2+} ion in the quasi-2D mixed system $Rb_2Mn_xCr_{1-x}Cl_4$. Journal of Magnetism and Magnetic Materials, 1992, 111, 153-163.	2.3	135
8	Ligand field analysis of the 3dN ions at orthorhombic or higher symmetry sites. Computers & Chemistry, 1992, 16, 207-216.	1.2	130
9	On standardization and algebraic symmetry of the ligand field Hamiltonian for rare earth ions at monoclinic symmetry sites. Journal of Chemical Physics, 1986, 84, 5045-5058.	3.0	129
10	On the derivation of the superposition-model formulae using the transformation relations for the Stevens operators. Journal of Physics C: Solid State Physics, 1987, 20, 6033-6037.	1.5	122
11	Can the low symmetry crystal (ligand) field parameters be considered compatible and reliable?. Journal of Luminescence, 2004, 110, 39-64.	3.1	102
12	The effect of disorder in the local lattice distortions on the EPR and optical spectroscopy parameters for a new Cr^{3+} defect center in $Cr^{3+}:Mg^{2+}:LiNbO_3$. Physica B: Condensed Matter, 2002, 318, 188-197.	2.7	101
13	Disentangling intricate web of interrelated notions at the interface between the physical (crystal) T_j ETQq1 1 0.784314 rgBT /Overloc 28-63.	18.8	93
14	Microscopic spin Hamiltonian approaches for 3d8 and 3d2 ions in a trigonal crystal field - perturbation theory methods versus complete diagonalization methods. Journal of Physics Condensed Matter, 2002, 14, 5619-5636.	1.8	86
15	Can the electron magnetic resonance (EMR) techniques measure the crystal (ligand) field parameters?. Physica B: Condensed Matter, 2001, 300, 1-26.	2.7	75
16	Microscopic spin-Hamiltonian parameters and crystal field energy levels for the low C_3 symmetry Ni^{2+} centre in $LiNbO_3$ crystals. Physica B: Condensed Matter, 2004, 348, 151-159.	2.7	71
17	Algebraic symmetry and determination of the imaginary crystal-field parameters from optical spectra of f _n -ions. Tetragonal symmetry. Chemical Physics, 1985, 97, 43-50.	1.9	66
18	Noether's theorem and conserved quantities for the crystal- and ligand-field Hamiltonians invariant under continuous rotational symmetry. Physical Review B, 2003, 67, .	3.2	63

#	ARTICLE	IF	CITATIONS
19	Intrinsically incompatible crystal (ligand) field parameter sets for transition ions at orthorhombic and lower symmetry sites in crystals and their implications. <i>Physica B: Condensed Matter</i> , 2010, 405, 113-132.	2.7	63
20	On the standardization of crystal-field parameters and the multiple correlated fitting technique: Applications to rare-earth compounds. <i>Physica B: Condensed Matter</i> , 2000, 291, 327-338.	2.7	60
21	Theoretical investigations of the microscopic spin Hamiltonian parameters including the spin-spin and spin-orbit interactions for Ni ²⁺ (3d ⁸) ions in trigonal crystal fields. <i>Journal of Physics Condensed Matter</i> , 2004, 16, 3481-3494.	1.8	60
22	Superposition model analysis of the zero-field splitting parameters of Fe ³⁺ doped in TlInS ₂ crystal – Low symmetry aspects. <i>Optical Materials</i> , 2010, 32, 1161-1169.	3.6	59
23	Modeling zero-field splitting parameters for dopant Mn ²⁺ and Fe ³⁺ ions in anatase TiO ₂ crystal using superposition model analysis. <i>Chemical Physics Letters</i> , 2012, 524, 49-55.	2.6	55
24	Effect of Monoclinic Symmetry on the EPR Spectra of Gd ³⁺ -Doped Hydrated Single Crystals of Rare-Earth Trichlorides. <i>Physica Status Solidi (B): Basic Research</i> , 1988, 147, 677-684.	1.5	51
25	Transformation relations for the conventional O _k and normalised O' _k Stevens operator equivalents with k = 1 to 6 and -k ≤ q ≤ k. <i>Journal of Physics C: Solid State Physics</i> , 1985, 18, 3837-3837.	1.5	50
26	Ground and excited state absorption of Ni ²⁺ ions in MgAl ₂ O ₄ : Crystal field analysis. <i>Journal of Alloys and Compounds</i> , 2007, 432, 61-68.	5.5	48
27	On the relations between the zero-field splitting parameters in the extended Stevens operator notation and the conventional ones used in EMR for orthorhombic and lower symmetry. <i>Journal of Physics Condensed Matter</i> , 2000, 12, L417-L423.	1.8	47
28	Comprehensive approach to the zero-field splitting of S ₆ -state ions: Mn ²⁺ and Fe ³⁺ in fluoroperovskites. <i>Physical Review B</i> , 1992, 45, 9736-9748.	3.2	43
29	Superposition model and crystal-field analysis of the ⁴ A ₂ and ² E states of Cr ³⁺ ions at C ₃ sites in LiNbO ₃ . <i>Journal of Physics Condensed Matter</i> , 1993, 5, 6221-6230.	1.8	43
30	The extended version of the computer package CST for conversions, standardization and transformations of the spin Hamiltonian and the crystal-field Hamiltonian. <i>Computers & Chemistry</i> , 2002, 26, 149-157.	1.2	43
31	Crystal field analysis of the energy level structure of Cs ₂ NaAlF ₆ :Cr ³⁺ . <i>Journal of Physics Condensed Matter</i> , 2006, 18, 5221-5234.	1.8	42
32	Orthorhombic standardization of spin-Hamiltonian parameters for transition-metal centres in various crystals. <i>Journal of Physics Condensed Matter</i> , 1999, 11, 273-287.	1.8	41
33	Alternative zero-field splitting (ZFS) parameter sets and standardization for Mn ²⁺ ions in various hosts exhibiting orthorhombic site symmetry. <i>Journal of Physics and Chemistry of Solids</i> , 2009, 70, 827-833.	4.0	41
34	Crystal field analysis for 3d ⁴ and 3d ⁶ ions with an orbital singlet ground state at orthorhombic and tetragonal symmetry sites. <i>Journal of Physics and Chemistry of Solids</i> , 1992, 53, 1227-1236.	4.0	40
35	Crystal field analysis of the 3d ^N ions at low symmetry sites including the imaginary terms. <i>Computers in Physics</i> , 1994, 8, 583.	0.5	39
36	Diagonalization of second-rank crystal field terms for 3d ^N and 4f ^N ions at triclinic or monoclinic symmetry sites – case study: Cr ⁴⁺ in Li ₂ MgSiO ₄ and Nd ³⁺ in β -BaB ₂ O ₄ . <i>Optical Materials</i> , 2008, 31, 391-400.	3.6	39

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37	Experimental and Theoretical Investigation of Spin-Hamiltonian Parameters for the Low Symmetry Fe ³⁺ Centre in LiNbO ₃ . Physica Status Solidi (B): Basic Research, 1994, 185, 409-415.	1.5	37
38	Monoclinic Spin Hamiltonian Analysis of EPR Spectra of Mn ²⁺ in BiVO ₄ Single Crystals. Physica Status Solidi (B): Basic Research, 1996, 198, 839-851.	1.5	37
39	Modeling local distortions around ions doped into crystal using superposition model analysis of the zero-field splitting parameters. Solid State Communications, 2010, 150, 1077-1081.	1.9	37
40	Energy levels and crystal-field parameters for Pr ³⁺ and Nd ³⁺ ions in rare earth (RE) tellurium oxides RE ₂ Te ₄ O ₁₁ revisited – Ascent/descent in symmetry method applied for triclinic site symmetry. Optical Materials, 2011, 33, 1147-1161.	3.6	37
41	Cr ³⁺ centres in LiNbO ₃ : Experimental and theoretical investigation of spin hamiltonian parameters. Solid State Communications, 1993, 87, 245-249.	1.9	36
42	Crystal Field Energy Levels and State Vectors for the 3dN Ions at Orthorhombic or Higher Symmetry Sites. Journal of Computational Physics, 1993, 109, 150-152.	3.8	35
43	Reanalysis of energy levels and crystal field parameters for Er ³⁺ and Tm ³⁺ ions at C ₂ symmetry sites in hexahydrated trichloride crystals – Intricate aspects of multiple solutions for monoclinic symmetry. Physica B: Condensed Matter, 2010, 405, 1927-1940.	2.7	34
44	Modeling techniques for analysis and interpretation of electron magnetic resonance (EMR) data for transition ions at low symmetry sites in crystals – A primer for experimentalists. Physica B: Condensed Matter, 2009, 404, 3582-3593.	2.7	33
45	Forms of crystal field Hamiltonians – A critical review. Optical Materials, 2011, 33, 1557-1561.	3.6	32
46	Correlations between orthorhombic crystal field parameters for rare-earth (fn) and transition-metal (dn) ions in crystals: REBa ₂ Cu ₃ O _{7-x} , RE ₂ F ₁₄ B, RE-garnets, RE:LaF ₃ and MnF ₂ . Molecular Physics, 1991, 74, 1159-1170.	1.7	31
47	Physics behind the magnetic hysteresis loop – a survey of misconceptions in magnetism literature. Journal of Magnetism and Magnetic Materials, 2003, 260, 250-260.	2.3	30
48	Modeling local structure using crystal field and spin Hamiltonian parameters: the tetragonal Fe ³⁺ O ₂ defect center in KTaO ₃ crystal. Journal of Physics Condensed Matter, 2009, 21, 455402.	1.8	30
49	EPR Study of Low Symmetry Mn ²⁺ Centers in LiNbO ₃ . Superposition Model and Crystal Field Analysis of the Zero-Field Splitting Parameters. Physica Status Solidi (B): Basic Research, 1994, 185, 417-428.	1.5	28
50	Crystal-field analysis for RE ³⁺ ions in laser materials: III. Energy levels for Nd ³⁺ and Er ³⁺ ions in LaAlO ₃ , YAlO ₃ , and LaGaO ₃ single crystals – Combined approach to low symmetry crystal field parameters. Chemical Physics, 2012, 400, 29-38.	1.9	28
51	New field-induced single ion magnets based on prolate Er(III) and Yb(III) ions: tuning the energy barrier U_{eff} by the choice of counterions within an N ₃ -tridentate Schiff-base scaffold. Inorganic Chemistry Frontiers, 2018, 5, 605-618.	6.0	27
52	Algebraic symmetry and determination of the “imaginary” crystal field parameters from optical spectra of fn-ions. Hexagonal and trigonal symmetry. Chemical Physics, 1986, 102, 437-443.	1.9	26
53	Reanalysis of crystal-field parameters for Nd ³⁺ ions in Nd ₂ BaCuO ₅ and Nd ₂ BaZnO ₅ based on standardization, multiple correlated fitting technique, and dataset closeness. Physical Review B, 2007, 76, .	3.2	26
54	A lidar study of the atmospheric entrainment zone and mixed layer over Hong Kong. Atmospheric Research, 2004, 69, 147-163.	4.1	25

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55	Clarification of the confusion concerning the crystal-field quantities vs the zero-field splitting quantities in magnetism studies: Part II – Survey of literature dealing with model studies of spin systems. <i>Physica B: Condensed Matter</i> , 2008, 403, 2312-2330.	2.7	25
56	Terminological confusions and problems at the interface between the crystal field Hamiltonians and the zero-field splitting Hamiltonians – Survey of the CF=ZFS confusion in recent literature. <i>Physica B: Condensed Matter</i> , 2014, 451, 134-150.	2.7	25
57	Analysis of the net charge-compensation contribution in the fine structure of EPR defect centers: Cr ³⁺ , Fe ³⁺ , and Gd ³⁺ in A ₂ MX ₄ , AMX ₃ , and MX ₂ -type crystals. <i>Physical Review B</i> , 1988, 37, 27-34.	3.2	24
58	Spin Hamiltonian and structural disorder analysis for two high temperature Cr ³⁺ defect centers in \pm -LiIO ₃ crystals – low symmetry effects. <i>Journal of Physics and Chemistry of Solids</i> , 2003, 64, 887-896.	4.0	24
59	Clarification of the confusion concerning the crystal-field quantities vs. the zero-field splitting quantities in magnetism studies: Part I – Survey of literature dealing with specific compounds. <i>Physica B: Condensed Matter</i> , 2008, 403, 1882-1897.	2.7	24
60	Analysis of low symmetry aspects revealed by the zero-field splitting parameters and the crystal field parameters for Cr ³⁺ ions doped into yttrium aluminum borate YAl ₃ (BO ₃) ₄ crystal. <i>Optical Materials</i> , 2014, 36, 1342-1349.	3.6	24
61	Low symmetry aspects inherent in electron magnetic resonance (EMR) data for transition ions at triclinic and monoclinic symmetry sites: EMR of Fe ³⁺ and Gd ³⁺ in monoclinic zirconia revisited. <i>Physica B: Condensed Matter</i> , 2008, 403, 2349-2366.	2.7	23
62	Crystal-field analysis for RE ³⁺ ions in laser materials: I. Absorption spectra and energy levels calculations for Nd ³⁺ and Pr ³⁺ ions in ABCO ₄ crystals. <i>Chemical Physics</i> , 2011, 383, 68-82.	1.9	23
63	Crystal field levels and zero-field splitting parameters of Cr ²⁺ in the mixed system Rb ₂ MnxCr _{1-x} Cl ₄ . <i>Physica B: Condensed Matter</i> , 1993, 191, 323-333.	2.7	22
64	Comparative analysis of the microscopic spin-Hamiltonian expressions used for the non-Kramers Fe ²⁺ (3d ₆) ions with spin S=2 in reduced rubredoxin, desulfuredoxin, and related systems. <i>Physica B: Condensed Matter</i> , 2003, 337, 204-220.	2.7	22
65	Alternative crystal field parameters for rare-earth ions obtained from various techniques. <i>Journal of Alloys and Compounds</i> , 2009, 467, 98-105.	5.5	22
66	The calculation of zero-field splitting parameters for Fe ³⁺ ions doped in rutile TiO ₂ crystal by superposition model analysis. <i>Chemical Physics</i> , 2012, 402, 83-90.	1.9	22
67	Energy levels and crystal field parameters for Nd ³⁺ ions in BaY ₂ F ₈ , LiKYF ₅ , and K ₂ YF ₅ single crystals. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 87, 46-60.	3.9	22
68	Zeeman and zero-field splitting of 3d ₄ and 3d ₆ ions with orbital singlet ground state at orthorhombic and tetragonal symmetry sites. <i>Journal of Physics and Chemistry of Solids</i> , 1994, 55, 745-757.	4.0	20
69	Computer package for microscopic spin Hamiltonian analysis of the 3d ₄ and 3d ₆ (spin S = 2) ions at orthorhombic and tetragonal symmetry sites. <i>Computers & Chemistry</i> , 1997, 21, 45-50.	1.2	20
70	Monoclinic and orthorhombic standardization of spin-Hamiltonian parameters for rare-earth centers in various crystals. <i>Physica B: Condensed Matter</i> , 2000, 279, 302-318.	2.7	20
71	Trends in the crystal (ligand) field parameters and the associated conserved quantities for trivalent rare-earth ions at S ₄ symmetry sites in LiYF ₄ . <i>Journal of Alloys and Compounds</i> , 2004, 385, 238-251.	5.5	20
72	Comparative analysis of crystal-field parameters for rare-earth ions at monoclinic sites in AB(WO ₄) ₂ crystals: I. Tm ³⁺ in KGd(WO ₄) ₂ and KLu(WO ₄) ₂ , and Ho ³⁺ and Er ³⁺ ions in KGd(WO ₄) ₂ . <i>Journal of Physics Condensed Matter</i> , 2010, 22, 045501.	1.8	20

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73	Revealing the consequences and errors of substance arising from the inverse confusion between the crystal (ligand) field quantities and the zero-field splitting ones. <i>Physica B: Condensed Matter</i> , 2015, 456, 330-338.	2.7	20
74	On the EPR of 3d4 and 3d6 ions at high magnetic fields. <i>Physica B: Condensed Matter</i> , 1989, 155, 336-339.	2.7	19
75	Correlation of spectroscopic properties and substitutional sites of Cr ³⁺ in aluminosilicates: I. Kyanite. <i>Physics and Chemistry of Minerals</i> , 1994, 21, 526.	0.8	19
76	Characteristics of the Magnetically Ordered High-Spin S=2 Fe ²⁺ Ion Systems Potentially Suitable for High-Magnetic-Field and High-Frequency EMR Studies. <i>Journal of the Physical Society of Japan</i> , 2003, 72, 61-83.	1.6	19
77	Crystal-field energy level analysis for Nd ³⁺ ions at the low symmetry C ₁ site in [Nd(hfa) ₄ (H ₂ O)](N(C ₂ H ₅) ₄) single crystals. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 385205.	1.8	19
78	Low-temperature magnetism of some alkali metal uranates(V) and alkaline earth neptunates(IV). Examples for ferrimagnetism in mixed actinide oxides. <i>Journal of Chemical Physics</i> , 1983, 78, 5764-5771.	3.0	18
79	Relations between arbitrary symmetry spin-hamiltonian parameters B _{kq} and b _{kq} in Various Axis Systems. <i>Journal of Magnetic Resonance</i> , 1985, 63, 95-106.	0.5	18
80	Net charge compensation contribution in the fine structure of EPR defect centres. Application to M ³⁺ \hat{a}^{\sim} VM (cation vacancy) and M ³⁺ \hat{a}^{\sim} X ⁺ (M = Cr, Fe, Gd; X = Li, Na) centres in A ₂ MF ₄ and A ₂ MCl ₄ . <i>Solid State Communications</i> , 1988, 65, 631-635.	1.9	18
81	Correlation of spectroscopic properties and substitutional sites of Cr ³⁺ in aluminosilicates: II. Andalusite and sillimanite. <i>Physics and Chemistry of Minerals</i> , 1994, 21, 532.	0.8	18
82	On the non-standard rhombic spin Hamiltonian parameters derived from Mössbauer spectroscopy and magnetism-related measurements. <i>Journal of Magnetism and Magnetic Materials</i> , 2001, 231, 146-156.	2.3	18
83	Crystal-field analysis for RE ³⁺ ions in laser materials: II. Absorption spectra and energy levels calculations for Nd ³⁺ ions doped into SrLaGa ₃ O ₇ and BaLaGa ₃ O ₇ crystals and Tm ³⁺ ions in SrGdGa ₃ O ₇ . <i>Chemical Physics</i> , 2011, 387, 69-78.	1.9	18
84	Model calculation of the spectroscopic properties for Cr ³⁺ in kyanite. <i>Journal of Luminescence</i> , 1994, 60-61, 108-111.	3.1	16
85	Crystal field parameters for Yb ³⁺ ions at orthorhombic centers in garnets – Revisited. <i>Journal of Luminescence</i> , 2011, 131, 2690-2696.	3.1	16
86	Correlation of EMR and optical spectroscopy data for Cr ³⁺ and Mn ²⁺ ions doped into yttrium aluminum borate YAl ₃ (BO ₃) ₄ crystal – Extracting low symmetry aspects. <i>Optical Materials</i> , 2015, 46, 254-259.	3.6	16
87	Spectroscopic and magnetic studies of erbium(III)-TEMPO complex as a potential single-molecule magnet: Interplay of the crystal-field and exchange coupling effects. <i>Chemical Physics Letters</i> , 2016, 662, 163-168.	2.6	16
88	Origin of the Ground Kramers Doublets for Co ²⁺ (3d ⁷) Ions with the Effective Spin 3/2 Versus the Fictitious \hat{a}^{\sim} Spin \hat{a}^{\sim} 1/2. <i>Applied Magnetic Resonance</i> , 2019, 50, 797-808.	1.2	16
89	Effects of a nontrigonal crystal field on spectroscopic properties of Fe ²⁺ ions in yttrium iron garnet: Si(Ge). <i>Physical Review B</i> , 1980, 21, 4967-4975.	3.2	15
90	Low symmetry aspects in spectroscopic and magnetic susceptibility studies of Tb ³⁺ (4f ⁸) in TbAlO ₃ . <i>Journal of Rare Earths</i> , 2009, 27, 627-632.	4.8	15

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91	Optical Spectra and Energy Levels Analysis of the $4f^N$ Ions Doped into Ba_2YCl_7 . Journal of Physical Chemistry A, 2012, 116, 10574-10588.	2.5	15
92	The High-Resolution $4f \rightarrow 5d$ Absorption Spectrum of Divalent Dysprosium (Dy^{2+}) in Strontium Chloride Host $SrCl_2$: Fine Structure and Zero-Phonon Transitions Revealed. Journal of Physical Chemistry A, 2018, 122, 923-928.	2.5	15
93	Superposition model in electron magnetic resonance spectroscopy – a primer for experimentalists with illustrative applications and literature database. Applied Spectroscopy Reviews, 2019, 54, 673-718.	6.7	15
94	Crystal field and superposition model analysis for high-spin Fe^{2+} and Fe^{4+} ions in $YBa_2(Cu_{1-x}Fe_x)_3O_{7-\delta}$. Superconductor Science and Technology, 1991, 4, 535-543.	3.5	14
95	Crystal field and EPR analysis for $5D$ ($3d_4$ and $3d_6$) ions at tetragonal sites: Applications to Fe^{2+} ions in minerals and Cr^{2+} impurities in semiconductors. Journal of Physics and Chemistry of Solids, 1996, 57, 1191-1199.	4.0	14
96	Electron magnetic resonance studies of Fe^{3+} ions in $BaTiO_3$: Implications of the misinterpretation of zero-field splitting terms and comparative data analysis. Physical Review B, 2006, 74, .	3.2	14
97	Modeling Spectroscopic Properties of Ni^{2+} Ions in the Haldane Gap System Y_2BaNiO_5 . Applied Magnetic Resonance, 2013, 44, 899-915.	1.2	14
98	Textbook treatments of the hysteresis loop for ferromagnets – Survey of misconceptions and misinterpretations. American Journal of Physics, 2003, 71, 1080-1083.	0.7	13
99	Temperature dependence of the EPR lines in weakly doped $LiNbO_3:Yb^{3+}$ – possible evidence of Yb^{3+} ion pairs formation. Physica B: Condensed Matter, 2008, 403, 207-218.	2.7	13
100	Alternative crystal-field parameters for rare-earth ions obtained from various techniques: II. Reanalysis of spectroscopic data for Eu^{3+} and Er^{3+} ions in RE_2BaXO_5 ($X=Co, Cu, Ni, Zn$) high temperature superconductors and related systems. Journal of Alloys and Compounds, 2009, 467, 106-111.	5.5	13
101	Determination of Crystal-Field Energy Levels and Temperature Dependence of Magnetic Susceptibility for Dy^{3+} in $[Dy_2Pd]$ Heterometallic Complex. Inorganic Chemistry, 2013, 52, 13199-13206.	4.0	13
102	Magnetostructural correlations for Fe^{2+} ions at orthorhombic sites in $FeCl_2 \cdot 4H_2O$ and $FeF_2 \cdot 4H_2O$ crystals modeled by microscopic spin Hamiltonian approach. Journal of Magnetism and Magnetic Materials, 2016, 401, 1068-1077.	2.3	13
103	Computation of spin Hamiltonian parameters for 3 d ions at arbitrary symmetry within the lowest LS term approximation. Journal of Physics C: Solid State Physics, 1981, 14, 923-933.	1.5	12
104	Further EPR study of paramagnetic Cr^{3+} centers in $KTiOPO_4$. Applied Magnetic Resonance, 1997, 12, 351-361.	1.2	12
105	Crystal field analysis within the approximation for $3d_4$ and $3d_6$ ions at sites with an axial type II symmetry. Journal of Physics and Chemistry of Solids, 1999, 60, 17-27.	4.0	12
106	Reanalysis of crystal field parameter datasets for rare-earth ions at low symmetry sites: Nd^{3+} in $NdGaO_3$ and Pr^{3+} in $PrGaO_3$. Journal of Alloys and Compounds, 2005, 389, 256-264.	5.5	12
107	Comprehensive analysis of crystal field parameter datasets for transition ions at low symmetry sites and extracting structural information – Application to Pr^{4+} in $BaPrO_3$. Journal of Alloys and Compounds, 2008, 456, 16-26.	5.5	12
108	Truncated forms of the second-rank orthorhombic Hamiltonians used in magnetism and electron magnetic resonance (EMR) studies are invalid – Why it went unnoticed for so long?. Journal of Magnetism and Magnetic Materials, 2009, 321, 2946-2955.	2.3	12

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109	Single magnetic 3dN adatoms on surfaces – Proper outlook on compatibility of orthorhombic zero-field splitting parameters and their relationships with magnetic anisotropy quantities. Polyhedron, 2017, 127, 126-134.	2.2	12
110	Extension of High-Resolution Optical Absorption Spectroscopy to Divalent Neodymium: Absorption Spectra of Nd ²⁺ Ions in a SrCl ₂ Host. Angewandte Chemie - International Edition, 2017, 56, 10721-10724.	13.8	12
111	Electron magnetic resonance data on high-spin Mn(III; S = 2) ions in porphyrinic and salen complexes modeled by microscopic spin Hamiltonian approach. Journal of Inorganic Biochemistry, 2017, 175, 36-46.	3.5	12
112	Crystal field levels and fine structure of the ground orbital state for high spin Fe ²⁺ and Fe ⁴⁺ ions in YBa ₂ (Cu _{1-x} Fe _x) ₃ O _{7-δ} . Journal of Physics and Chemistry of Solids, 1993, 54, 733-744.	4.0	11
113	Comparative analysis and identification of low-symmetry paramagnetic centers: Cr ³⁺ in KTiOPO ₄ . Applied Magnetic Resonance, 1999, 16, 457-472.	1.2	11
114	Temperature dependence of local structural changes around transition metal centers Cr ³⁺ and Mn ²⁺ in RAl ₃ (BO ₃) ₄ crystals studied by EMR. Optical Materials, 2017, 73, 124-131.	3.6	11
115	Crystal-field energy levels for deep Fe centers at orthorhombic and higher symmetry sites in BaTiO ₃ . Journal of the Optical Society of America B: Optical Physics, 1995, 12, 544.	2.1	10
116	EPR Study of Cr ³⁺ and Fe ³⁺ Impurity Ions in Nominally Pure and Co ²⁺ -Doped YAlO ₃ Single Crystals. Applied Magnetic Resonance, 2009, 36, 371-380.	1.2	10
117	Alternative crystal-field parameters for rare-earth ions obtained from various techniques: III. Low symmetry aspects inherent in monoclinic parameters obtained by Mössbauer spectroscopy for Tm ³⁺ ions in Tm ₂ BaXO ₅ (X=Co, Cu, Ni). Journal of Alloys and Compounds, 2010, 497, 32-37.	5.5	10
118	Systematization of crystal field parameters for trivalent rare-earth (RE ³⁺) ions at orthorhombic sites in selected laser materials – standardization approach. Journal of Physics and Chemistry of Solids, 2013, 74, 751-758.	4.0	10
119	Effect of small in-plane anisotropy in the large-D phase systems based on Ni ²⁺ (S=1) ions in Heisenberg antiferromagnetic chains. Physica B: Condensed Matter, 2014, 436, 193-199.	2.7	10
120	Spectroscopic determination of site symmetry and space group in lanthanide-doped crystals: Resolving intricate symmetry aspects for Pr^{2+} -NaLnF ₄ . Polyhedron, 2016, 105, 42-48.	2.2	10
121	Crossing of low-lying electronic levels of high-spin ferrous ion in deoxyhemoglobin and deoxymyoglobin. Biochimica Et Biophysica Acta (BBA) - Protein Structure, 1977, 490, 301-310.	1.7	9
122	EPR study of Mn ²⁺ in ferroelastic BiVO ₄ single crystal: Monoclinic spin hamiltonian parameters and their temperature dependence. Ferroelectrics, 1994, 156, 249-254.	0.6	9
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