Michael F Reid

List of Publications by Citations

179 papers	4,740 citations	37 h-index	61 g-index
192 ext. papers	4,937 ext. citations	3.7 avg, IF	5.24 L-index

#	Paper	IF	Citations
179	4fn->4fn−15d transitions of the light lanthanides: Experiment and theory. *Physical Review B*, **2002**, 65,	3.3	257
178	4fn->4fn−15d transitions of the heavy lanthanides: Experiment and theory. *Physical Review B*, **2002**, 65,	3.3	194
177	Energy levels of lanthanide ions in the cubic Cs2NaLnCl6 and Cs2NaYCl6:Ln3+ (doped) systems. *Journal of Chemical Physics*, **1985**, 83, 3813-3830	3.9	157
176	Spectroscopy and calculations for 4fN->4fN−15d transitions of lanthanide ions in LiYF4. *Physical Review B*, **2000**, 62, 14744-14749	3.3	147
175	Analysis of spectral data and comparative energy level parametrizations for Ln3+ in cubic elpasolite crystals. *Journal of Alloys and Compounds*, **1994**, 215, 349-370	5.7	119
174	Electric dipole intensity parameters for lanthanide 4f -> 4f transitions. *Journal of Chemical Physics*, **1983**, 79, 5735-5742	3.9	117
173	A complete energy level diagram for all trivalent lanthanide ions. *Journal of Solid State Chemistry*, **2005**, 178, 448-453	3.3	116
172	Correlation crystal field analyses with orthogonal operators. *Journal of Chemical Physics*, **1987**, 87, 2875-2884	3.9	112
171	Energy transfer mechanism for downconversion in the (Pr3+, Yb3+) couple. *Physical Review B*, **2010**, 81,	3.3	106
170	Phenomenological spin-correlated crystal-field analyses of energy levels in Ln3+:LaCl3 systems. *Journal of the Less Common Metals*, **1989**, 148, 289-296		102
169	Energy levels and correlation crystal-field effects in Er3+-doped garnets. *Physical Review B*, **1993**, 48, 15561-15573	3.3	97
168	Analysis of the crystal-field spectra of the actinide tetrafluorides. I. UF4, NpF4, and PuF4. *Journal of Chemical Physics*, **1991**, 95, 7194-7203	3.9	92
167	Free-ion, crystal-field, and spin-correlated crystal-field parameters for lanthanide ions in Cs2NaLnCl6 and Cs2NaYCl6:Ln3+ systems. *Journal of Chemical Physics*, **1985**, 83, 3831-3836	3.9	88
166	Comprehensive Spectroscopic Determination of the Crystal Field Splitting in an Erbium Single-Ion Magnet. *Journal of the American Chemical Society*, **2015**, 137, 13114-20	16.4	86
165	Lanthanide 4f .fwdarw. 4f electric dipole intensity theory. *The Journal of Physical Chemistry*, **1984**, 88, 3579-3586		85
164	Energy-level and line-strength analysis of optical transitions between Stark levels in Nd3+:Y3Al5O12. *Physical Review B*, **1994**, 50, 16309-16325	3.3	82
163	Correlation-crystal-field analysis of the 2H(2)11/2 multiplet of Nd3+. *Physical Review B*, **1990**, 42, 1903-1909	3.9	74

162	Comparison of calculated and experimental 4f -> 4f intensity parameters for lanthanide complexes with isotropic ligands. *Journal of Chemical Physics*, **1983**, 79, 5743-5751	3.9	68
161	Downconversion for Solar Cells in YF3:Pr3+, Yb3+. *Spectroscopy Letters*, **2010**, 43, 373-381	1.1	60
160	Trends in parameters for the 4fN<->4fN−15d spectra of lanthanide ions in crystals. *Journal of Alloys and Compounds*, **2002**, 344, 240-245	5.7	60
159	A simple model for f -> d transitions of rare-earth ions in crystals. *Journal of Solid State Chemistry*, **2003**, 171, 299-303	3.3	58
158	4fn−15d->4fn emission of Ce3+, Pr3+, Nd3+, Er3+, and Tm3+ in LiYF4 and YPO4. *Physical Review B*, **2005**, 71,	3.3	57
157	Local field effects on the radiative lifetime of emitters in surrounding media: Virtual- or real-cavity model?. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2005**, 343, 474-480	2.3	57
156	Ligand polarization contributions to two-photon absorption in lanthanide ions. *Physical Review B*, **1984**, 29, 2830-2832	3.3	57
155	On the standardization of crystal-field parameters and the multiple correlated fitting technique: Applications to rare-earth compounds. *Physica B: Condensed Matter*, **2000**, 291, 327-338	2.8	56
154	Spectra, energy levels, and transition line strengths for Sm3+:Y3Al5O12. *Physical Review B*, **1999**, 60, 15643-15653	3.3	56
153	Correlation-crystal-field analysis of Nd3+(4f3) energy-level structures in various crystal hosts. *Journal of Physics Condensed Matter*, **1994**, 6, 5919-5936	1.8	55
152	Emission spectra and trends for 4fn−15d<->4fn transitions of lanthanide ions: Experiment and theory. *Journal of Chemical Physics*, **2001**, 115, 9382-9392	3.9	53
151	Anisotropic ligand polarizability contributions to intensity parameters for the trigonal Eu(ODA)33- and Eu(DBM)3H2O systems. *The Journal of Physical Chemistry*, **1984**, 88, 3587-3594		51
150	Anisotropic ligand polarizability contributions to lanthanide 4f -> 4f intensity parameters. *Chemical Physics Letters*, **1983**, 95, 501-506	2.5	46
149	Comparative analyses of Nd3+ (4f3) energy level structures in various crystalline hosts. *Journal of Alloys and Compounds*, **1992**, 180, 131-139	5.7	44
148	Comparative Crystal-Field Analyses of 4fN Energy Levels in LiYF4:Ln3+ Systems. *Physica Status Solidi (B): Basic Research*, **1989**, 155, 559-569	1.3	42
147	Circular dichroism spectra and electronic rotatory strengths of the samarium 4f -> 4f transitions in Na3[Sm(oxydiacetate)3]·2NaClO4·6H2O. *Molecular Physics*, **1987**, 62, 341-364	1.7	42
146	Crystal field parametrizations for low symmetry systems. *Molecular Physics*, **2004**, 102, 1141-1147	1.7	38
145	Spectra and energy levels of Tm3+(4f12) in AlN. *Physical Review B*, **2004**, 70,	3.3	37

144	A model analysis of 4fN→4fN−15d transitions of rare-earth ions in crystals. *Journal of Alloys and Compounds*, **2004**, 366, 34-40	5.7	37
143	4fn<->4fn−15d transitions of the trivalent lanthanides: experiment and theory. *Journal of Luminescence*, **2001**, 94-95, 79-83	3.8	37
142	Spectra and energy levels of Gd3+(4f7) in AlN. *Physical Review B*, **2004**, 69,	3.3	36
141	Reappearance of fine structure as a probe of lifetime broadening mechanisms in the 4f(N) --> 4f(N-1)5d excitation spectra of Tb3+, Er3+, and Tm3+ in CaF2 and LiYF4. *Physical Review Letters*, **2002**, 88, 067405	7.4	35
140	Local field effects on the radiative lifetimes of Ce3+ in different hosts. *Current Applied Physics*, **2006**, 6, 348-350	2.6	34
139	Electric dipole intensity parameters for the samarium 4f -> 4f transitions in Na3[Sm(oxydiacetate)3] · 2NaClO4 ·6H2O. *Molecular Physics*, **1987**, 61, 1471-1485	1.7	34
138	Crystal field parameters from ab initio calculations. *Journal of Alloys and Compounds*, **2009**, 488, 591-594	5.7	32
137	Parameterization of electric-dipole intensities in the vibronic spectra of rare-earth complexes. *Molecular Physics*, **1984**, 51, 1077-1094	1.7	32
136	The unusual temperature dependence of the fluorescence lifetime in crystals. *Journal of Alloys and Compounds*, **2006**, 408-412, 784-787	5.7	30
135	Surface and size effects and energy transfer phenomenon on the luminescence of nanocrystalline X1−2SiO5:Eu3+. *Journal of Alloys and Compounds*, **2000**, 303-304, 371-375	5.7	29
134	Comparison of 4f 2 energy parameters for Pr3+ in cubic elpasolite crystals. *Molecular Physics*, **1987**, 60, 881-886	1.7	29
133	Electronic spectra of Cs2NaYbF6 and crystal field analyses of YbX6(3-) (X = F, Cl, Br). *Journal of Physical Chemistry B*, **2006**, 110, 14939-42	3.4	28
132	Complete second-order calculations of intensity parameters for one-photon and two-photon transitions of rare-earth ions in solids. *Molecular Physics*, **1989**, 67, 407-415	1.7	28
131	Optical spectra, energy levels and crystal-field analysis of Sm3+ in Na3[Sm(oxydiacetate)3] · 2NaClO4 ·6H2O. *Molecular Physics*, **1987**, 61, 1455-1470	1.7	27
130	Empirical intensity parameters for the 4f .fwdarw. 4f absorption spectra of nine-coordinate neodymium(III) and holmium(III) complexes in aqueous solution. *Inorganic Chemistry*, **1984**, 23, 4607-4611	5.1	26
129	Ligand polarization contributions to lanthanide 4f -> 4f magnetic dipole transition moments and rotatory strengths. *Molecular Physics*, **1986**, 58, 929-945	1.7	26
128	Analysis and comparison of holmium 4f 10 energy levels in Cs2NaHoCl6 and Cs2NaHoBr6. *Molecular Physics*, **1987**, 61, 635-644	1.7	25
127	Model calculations for the intensity parameters of nine-coordinate neodymium(III) and holmium(III) complexes of trigonal symmetry. *Inorganic Chemistry*, **1984**, 23, 4611-4618	5.1	25

126	4f6->4f55d1 absorption spectrum analysis of Sm2+:SrCl2. *Physical Review B*, **2007**, 76,	3.3	24
125	Many-body perturbation theory for spin-forbidden two-photon spectroscopy of f-element compounds and its application to Eu2+ in CaF2. *Physical Review B*, **2002**, 66,	3.3	24
124	Spectroscopy of High-Energy States of Lanthanide Ions. *European Journal of Inorganic Chemistry*, **2010**, 2010, 2649-2654	2.3	23
123	Superposition-model analysis of intensity parameters for Eu3+ luminescence. *Journal of Chemical Physics*, **1987**, 87, 6388-6392	3.9	23
122	The point group crystal field and the superposition model for Re3+ions in CaF2and SrF2. *Journal of Physics C: Solid State Physics*, **1982**, 15, 4103-4116		23
121	Transient photoluminescence enhancement as a probe of the structure of impurity-trapped excitons in CaF2:Yb2+. *Physical Review B*, **2011**, 84,	3.3	22
120	Many-body perturbation theory calculations of two-photon absorption in lanthanide compounds. *Physical Review Letters*, **1993**, 70, 2491-2494	7.4	22
119	Link between optical spectra, crystal-field parameters, and local environments of Eu3+ ions in Eu2O3-doped sodium disilicate glass. *Physical Review B*, **2011**, 84,	3.3	21
118	Ambiguities in the parametrization of 4fN4fN electric-dipole transition intensities. *Physical Review B*, **1999**, 59, R7789-R7792	3.3	21
117	Non-resonant energy transfer from the 5D4 level of Tb3+ to the 5D0 level of Eu3+. *Journal of Alloys and Compounds*, **1994**, 207-208, 83-86	5.7	21
116	Extraction of crystal-field parameters for lanthanide ions from quantum-chemical calculations. *Journal of Physics Condensed Matter*, **2011**, 23, 045501	1.8	20
115	Optical emission spectra and crystal-field analysis of Tm3+ in the cubic Cs2NaYCl6 host. *Journal of Chemical Physics*, **1985**, 83, 3225-3233	3.9	20
114	3jm and 6j tables for some bases of SU6and SU3. *Journal of Physics A*, **1982**, 15, 1087-1117		20
113	Energy transfer between lanthanide ions in elpasolite lattices. *Journal of Alloys and Compounds*, **1995**, 225, 20-23	5.7	19
112	Recent extensions to crystal-field and transition-intensity models. *Journal of Alloys and Compounds*, **1992**, 180, 93-103	5.7	19
111	High-resolution measurements of the vacuum ultraviolet energy levels of trivalent gadolinium by excited state excitation. *Physical Review B*, **2005**, 71,	3.3	18
110	Energy transfer by magnetic dipole magnetic dipole interaction. *Chemical Physics Letters*, **1993**, 209, 539-546	2.5	18
109	Energy levels of Er3+ in Cs2NaErCl6. *Molecular Physics*, **1987**, 60, 1037-1045	1.7	17

108	Spin-correlated crystal-field interactions in NdF3, Nd3+:LaF3, and Nd3+:LiYF4. *Inorganica Chimica Acta*, **1987**, 139, 287-290	2.7	17
107	A few mistakes in widely used data files for configurations calculations. *Journal of Luminescence*, **2008**, 128, 421-427	3.8	16
106	Hyperfine patterns of infrared absorption lines of Ho3+ C4v centres in CaF2. *Molecular Physics*, **2004**, 102, 1367-1376	1.7	16
105	Analysis of f-element multiphonon vibronic spectra. *Journal of Alloys and Compounds*, **2004**, 374, 240-244	5.7	16
104	Magnetic circular dichroism of Na3Nd(ODA)3?2NaClO4?6H2O. *Journal of Chemical Physics*, **1996**, 105, 6117-6127	3.9	16
103	Correlation-crystal-field analysis of Sm3+:Na3. *Physical Review B*, **1994**, 49, 12551-12555	3.3	16
102	Crystal-field and superposition-model analyses of Pr3+-LaF3 in C2 symmetry. *Journal of the Less Common Metals*, **1989**, 148, 213-217		16
101	Orientations of point groups-phase choices in the Racah-Wigner algebra. *Journal of Physics A*, **1980**, 13, 2889-2901		16
100	j symbols and jm factors for all dihedral and cyclic groups. *Journal of Physics A*, **1979**, 12, 1655-1666		16
99	The Complexity of the CaF2:Yb System: A Huge, Reversible, X-ray-Induced Valence Reduction. *Journal of Physical Chemistry C*, **2017**, 121, 28435-28442	3.8	15
98	Sm2+ fluorescence and absorption in cubic BaCl2: Strong thermal crossover of fluorescence between 4f6 and 4f55d1 configurations. *Journal of Luminescence*, **2012**, 132, 2775-2782	3.8	15
97	Dependence of the spontaneous emission rates of emitters on the refractive index of the surrounding media. *Journal of Alloys and Compounds*, **2006**, 418, 213-216	5.7	15
96	Group-theoretical analysis of correlation crystal field models. *Journal of Alloys and Compounds*, **1993**, 193, 180-182	5.7	15
95	Correlation contributions to two-photon lanthanide absorption intensities: direct calculations for Eu2+ions. *Journal of Physics Condensed Matter*, **1993**, 5, L323-L328	1.8	15
94	Study of the f -> d transition of heavy lanthanide and actinide ions in crystals using the simple model. *Physica Status Solidi (B): Basic Research*, **2005**, 242, 2503-2508	1.3	14
93	Comparative energy level parametrizations for lanthanide ions in octahedral symmetry environments. *Journal of Alloys and Compounds*, **1995**, 225, 85-88	5.7	14
92	Model calculations for the intensity parameters of nine-coordinate erbium(III) complexes of trigonal symmetry. *Inorganic Chemistry*, **1987**, 26, 1208-1211	5.1	14
91	The ligand dependence of lanthanide 4f -> 4f magnetic dipole transition moments. *Journal of Chemical Physics*, **1986**, 84, 2917-2925	3.9	14

90	X-ray Excitation Triggers Ytterbium Anomalous Emission in CaF:Yb but Not in SrF:Yb. *Journal of Physical Chemistry Letters*, **2017**, 8, 1175-1178	6.4	13
89	Excitons and interconfigurational transitions in CaF2:Yb2+ crystals. *Journal of Luminescence*, **2015**, 158, 197-202	3.8	13
88	Calculation and analysis of hyperfine and quadrupole interactions in praseodymium-doped. *Journal of Luminescence*, **2010**, 130, 1557-1565	3.8	13
87	Absorption spectra, defect site distribution and upconversion excitation spectra of CaF2/SrF2/BaF2:Yb3+:Er3+ nanoparticles. *Journal of Alloys and Compounds*, **2020**, 834, 155165	5.7	12
86	Extending Phenomenological Crystal-Field Methods to C_{1} Point-Group Symmetry: Characterization of the Optically Excited Hyperfine Structure of ^{167}Er^{3+}:Y_{2}SiO_{5}. *Physical Review Letters*, **2019**, 123, 057401	7.4	12
85	Impurity-trapped excitons and electron traps in CaF2:Yb2+ and SrF2:Yb2+ probed by transient photoluminescence enhancement. *Journal of Luminescence*, **2013**, 133, 81-85	3.8	12
84	Evidence That the Anomalous Emission from CaF:Yb Is Not Described by the Impurity Trapped Exciton Model. *Journal of Physical Chemistry Letters*, **2017**, 8, 3313-3316	6.4	12
83	Intensities of hyperfine transitions of Pr3+ and Ho3+ in CaF2. *Journal of Alloys and Compounds*, **1997**, 250, 302-305	5.7	12
82	Macroscopic Models for the Radiative Relaxation Lifetime of Luminescent Centers Embedded in Surrounding Media. *Spectroscopy Letters*, **2007**, 40, 237-246	1.1	12
81	Analysis of correlation effects in the crystal-field splitting of Nd3+:LaCl3 under pressure. *Physical Review B*, **1993**, 48, 5919-5921	3.3	12
80	Theoretical intensities of 4f-4f transitions between stark levels of the Eu3+ ion in crystals. *Journal of Physics and Chemistry of Solids*, **1993**, 54, 777-778	3.9	12
79	Re-examination of the 4f3 energy parameters for several systems with neodymium□oxygen atom coordination. *Inorganica Chimica Acta*, **1987**, 139, 291-294	2.7	12
78	Site-selective transient photoluminescence enhancement of impurity-trapped excitons in NaMgF3:Yb2+. *Physical Review B*, **2013**, 88,	3.3	11
77	Electron trap liberation in MgF2 doped with Yb2+ using a two-color excitation experiment. *Applied Physics Letters*, **2012**, 100, 041902	3.4	11
76	Vibronic intensity parameters for Er3+ in Cs2NaErCl6. *Journal of Alloys and Compounds*, **1997**, 250, 297-301	5.7	11
75	Transition amplitude calculations for one- and two-photon absorption. *Journal of Alloys and Compounds*, **1998**, 275-277, 284-287	5.7	11
74	Electronic structure of U3+ in Cs3Lu2Cl9 and Cs3Y2I9 single crystals. *Journal of Physical Chemistry B* , **2005**, 109, 155-66	3.4	11
73	Non-Hermitian perturbative effective operators: Connectivity and derivation of diagrammatic representation. *Journal of Chemical Physics*, **2001**, 115, 8279-8284	3.9	11

72	Direct calculation of lanthanide optical transition intensities Nd3+:YAG. *Journal of Alloys and Compounds*, **1995**, 225, 115-119	5.7	11
71	Energy transfer between lanthanide ions in elpasolite lattices: electric quadrupole-electric quadrupole interaction. *Journal of Luminescence*, **1994**, 58, 356-360	3.8	11
70	The relationship between perturbation theory and direct calculations of rare earth transition intensities. *Journal of Alloys and Compounds*, **1994**, 207-208, 78-82	5.7	11
69	Ab-initio calculations of Judd□Ofelt intensity parameters for transitions between crystal-field levels. *Journal of Luminescence*, **2014**, 152, 54-57	3.8	10
68	General calculation of 4f-5d transition rates for rare-earth ions using many-body perturbation theory. *Journal of Chemical Physics*, **2005**, 122, 094714	3.9	10
67	Two-body operators for the f shell. *Journal of Alloys and Compounds*, **1993**, 193, 197-202	5.7	10
66	Burdick and Reid reply. *Physical Review Letters*, **1993**, 71, 3892	7.4	10
65	Orientations of reflection-rotation groups. *Journal of Physics A*, **1982**, 15, 2327-2335		10
64	Simulation of two-photon absorption spectra of Eu2+:CaF2 by direct calculation. *Journal of Luminescence*, **2006**, 118, 205-219	3.8	9
63	Comparison of crystal field parameters for Ln(C2H5SO4)3□9H2O and Na3(Ln(C4H4O5)3)□2NaClO4□6H2O systems. *Journal of the Less Common Metals*, **1989**, 148, 311-319		9
62	Time-resolved circularly polarized luminescence as a probe of energy-transfer dynamics in rare-earth doped crystals. *Journal of Luminescence*, **1990**, 45, 384-386	3.8	9
61	Rationalization of the f-f intensity parameters for transitions between crystal field levels of lanthanide ions. *Journal of the Less Common Metals*, **1983**, 93, 113-118		9
60	Effective Hamiltonian parameters for ab initio energy-level calculations of SrCl2:Yb2+ and CsCaBr3:Yb2+. *Journal of Physics Condensed Matter*, **2013**, 25, 415504	1.8	8
59	Chapter 232 4fn□4fn□15d transitions. *Fundamental Theories of Physics*, **2007**, 37, 61-98	0.8	8
58	Parameterized analysis of the ab initio calculation of Pr3+ energy levels. *Journal of Luminescence*, **2007**, 122-123, 939-941	3.8	8
57	Prediction of pure electric-dipole two-photon absorption circular dichroism in lanthanide compounds. *Chemical Physics*, **2000**, 256, 207-212	2.3	8
56	Comparison between correlation crystal field calculations using extended basis sets and two-electron operators. *Journal of Alloys and Compounds*, **2001**, 323-324, 636-639	5.7	8
55	Comparative analysis of free-ion energy levels of Er3+ (4f11) in various crystal hosts. *Journal of Alloys and Compounds*, **1993**, 193, 203-206	5.7	8

54	Comparison of calculated and experimental electric dipole intensity parameters for europium tris(ethylsulfate) enneahydrate. *Journal of Chemical Physics*, **1984**, 80, 3507-3509	3.9	8
53	Electric dipole intensity parameters for Pr3+ in LiYF4. *Journal of Luminescence*, **1984**, 31-32, 207-209	3.8	8
52	Luminescence properties of MgF2:Yb2+ at high hydrostatic pressure. *Journal of Luminescence*, **2016**, 169, 788-793	3.8	7
51	Mechanism of effective three-photon induced lasing. *Applied Physics Letters*, **2010**, 96, 021109	3.4	7
50	Lattice Location and Cathodoluminescence Studies of Ytterbium/Thulium Implanted 2H-Aluminium Nitride. *Materials Research Society Symposia Proceedings*, **2002**, 743, L6.16.1		7
49	Energy transfer by electric dipole-magnetic dipole interaction in cubic crystals. *Solid State Communications*, **1994**, 90, 581-583	1.6	7
48	Unitary and Hermitian phase operators for the electromagnetic field. *Physical Review A*, **1992**, 46, 549-55	2.6	7
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46	The determination of dopant ion valence distributions in insulating crystals using XANES measurements. *Journal of Physics Condensed Matter*, **2016**, 28, 135502	1.8	7
45	Theory of Rare-Earth Electronic Structure and Spectroscopy. *Fundamental Theories of Physics*, **2016**, 50, 47-64	0.8	6
44	Vacuum ultraviolet synchrotron measurements of excitons in NaMgF3:Yb2+. *Journal of Luminescence*, **2016**, 169, 419-421	3.8	6
43	Transformation properties of the delta-function model of correlation crystal fields. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1996**, 29, 1421-1431	1.3	6
42	A simple model for the f□ transition of actinide and heavy lanthanide ions in crystals. *Current Applied Physics*, **2006**, 6, 359-362	2.6	6
41	Additional operators for crystal field and transition intensity models. *Journal of Alloys and Compounds*, **1993**, 193, 160-164	5.7	6
40	Symmetry-adapted functions: molecular vibrations. *Journal of Physics B: Atomic and Molecular Physics*, **1983**, 16, 967-974		6
39	Parametrization of 5f-5f Transition Probabilities Between Stark Levels of [Formula: see text] 3+ in LiYF4. *Journal De Physique II*, **1995**, 5, 755-764		6
38	Upconversion Thermometry Using Yb3+/Er3+ Co-Doped KY3F10 Nanoparticles. *ACS Applied Nano Materials*, **2021**, 4, 5696-5706	5.6	6
37	Temperature dependent infrared absorption, crystal-field and intensity analysis of Ce3+ doped LiYF4. *Optical Materials*, **2015**, 47, 30-33	3.3	5

36	Frequency non-degenerate sequential excitation of the impurity trapped exciton in strontium fluoride crystals doped with ytterbium. *Journal of Applied Physics*, **2015**, 117, 133109	2.5	5
35	Transferability of Crystal-Field Parameters for Rare-Earth Ions in Y2SiO5 Tested by Zeeman Spectroscopy. *Physics of the Solid State*, **2019**, 61, 780-784	0.8	5
34	A comparison of the Yb3+ absorption and upconversion excitation spectra for both the cubic and hexagonal phases of NaYF4:Yb3+/Er3+ nanoparticles. *Optical Materials*, **2020**, 107, 110050	3.3	4
33	Application of point-group bases to fNfN d transitions of lanthanide and actinide ions doped in crystals. *Journal of Physics and Chemistry of Solids*, **2008**, 69, 2578-2583	3.9	4
32	Probing vacuum ultraviolet energy levels of trivalent gadolinium by two-photon spectroscopy. *Journal of Luminescence*, **2003**, 102-103, 211-215	3.8	4
31	Perturbation expansions and gauge choices in Judd felt theory. *Molecular Physics*, **2003**, 101, 917-922	1.7	4
30	Phonon-assisted energy transfer. *Journal of Luminescence*, **1994**, 60-61, 838-841	3.8	4
29	Intensity parameters for Eu3+ luminescence Tests of the superposition model. *Journal of the Less Common Metals*, **1989**, 148, 207-212		4
28	3jm factors and basis functions for D and C. *Journal of Physics A*, **1984**, 17, 1755-1759		4
27	Simplified diagrammatic expansion for effective operators. *Journal of Chemical Physics*, **2004**, 121, 5071-5	3.9	3
26	Effective two-photon transition operators: perturbative calculations and connectivity of diagrams. *Journal of Alloys and Compounds*, **2002**, 344, 272-275	5.7	3
25	Optical properties of Pr3+ in alkali zinc borosulphate glasses. *Journal of Alloys and Compounds*, **1993**, 193, 189-191	5.7	3
24	Pressure dependence of the emission in CaF2 : Yb(2+). *Journal of Physics Condensed Matter*, **2015**, 27, 305501	1.8	2
23	Energy transfer between Sm3+ ions in Y2SiO5 crystals. *Journal of Luminescence*, **2020**, 224, 117302	3.8	2
22	Parametrization of fNfN electric dipole transitions in point-group bases. *Journal of Alloys and Compounds*, **2001**, 323-324, 726-730	5.7	2
21	Ab-initio calculation of intensity parameters for the system Pr3+-Cl *Journal of the Less Common Metals*, **1989**, 148, 219-222		2
20	Effects of electron correlation on crystal field splittings **2000**, 120-139		2
19	Electron-nuclear interactions as a test of crystal field parameters for low-symmetry systems: Zeeman hyperfine spectroscopy of Ho3+-doped Y2SiO5. *Physical Review B*, **2021**, 103,	3.3	2

18	Synchrotron spectroscopy of confined carriers in CdF2-CaF2 superlattices. *Journal of Applied Physics*, **2016**, 119, 104305	2.5	2
17	Electron paramagnetic resonance enhanced crystal field analysis for low point-group symmetry systems: C sites in Sm:CaF/SrF. *Journal of Physics Condensed Matter*, **2019**, 31, 015501	1.8	2
16	Temporal dynamics of the frequency non-degenerate transient photoluminescence enhancement observed following excitation of inter-configurational f->d transitions in CaF2:Yb2+. *Journal of Luminescence*, **2017**, 192, 608-615	3.8	1
15	Transition Intensities. *Springer Series in Materials Science*, **2005**, 95-129	0.9	1
14	Calculation of single-beam two-photon absorption rate of lanthanides: effective operator method and perturbative expansion. *Journal of Chemical Physics*, **2004**, 121, 8183-6	3.9	1
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11	Intrinsic electronic excitations and impurity luminescent centres in NaMgF3 and MgF2 doped with Yb2+. *Optical Materials*, **2020**, 99, 109553	3.3	1
10	Zeeman infrared absorption of KY3F10 nano-crystals co-doped with Yb3+ and Er3+: Experiment and analysis. *Journal of Luminescence*, **2021**, 233, 117923	3.8	1
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