

Peter A. Tanner: Publications in International, Refereed Journals

1	C. D. Flint and P.A. Tanner, "Luminescence spectrum of Cs ₂ UO ₂ Cl ₄ ", Journal of the Chemical Society, Faraday Transactions 2, 74, 2210-7, 1978.
2	C. D. Flint and P.A. Tanner, "The vibronic analysis of the luminescence spectra of the UO ₂ Cl ₄ ²⁻ ion diluted into cubic crystals", Journal of Luminescence, 18/19, 69-72, 1979.
3	C. D. Flint and P.A. Tanner, "Absorption and luminescence spectra of [(C ₂ H ₅) ₃ NH] ₂ UO ₂ Cl ₄ ", Journal of the Chemical Society, Faraday Transactions 2, 75, 1168-78, 1979.
4	C. D. Flint and P.A. Tanner, "Luminescence spectra and electronic structure of the UO ₂ F ₅ ³⁻ ion", Molecular Physics, 43, 933-44, 1981.
5	C. D. Flint and P.A. Tanner, "Electronic and vibrational spectra of (Me ₄ N) ₂ UO ₂ Cl ₄ ", Journal of the Chemical Society, Faraday Transactions 2, 77, 1865-78, 1981.
6	C. D. Flint and P.A. Tanner, "Luminescence and absorption spectra of M ₂ UO ₂ Cl ₄ .xH ₂ O", Molecular Physics, 44, 411-25, 1981.
7	C. D. Flint and P.A. Tanner, "Vibrational and electronic spectra of some binuclear uranyl fluoride complexes", Journal of the Chemical Society, Faraday Transactions 2, 77, 2339-55, 1981.
8	C. D. Flint and P.A. Tanner, "Luminescence and vibrational spectra of the UO ₂ Br ₄ ²⁻ ion", Inorganic Chemistry, 20, 4405-7, 1981.
9a	C. D. Flint and P.A. Tanner, "Electronic and vibrational spectra of (Me ₂ N) ₂ UO ₂ Br ₄ ", Journal of the Chemical Society, Faraday Transactions 2, 78, 103-12, 1982.
9b	Corrigendum, Ibid, 79, 1707, 1983.
10	C. D. Flint and P.A. Tanner, "Luminescence and vibrational spectra of some polynuclear uranyl fluoride complexes", Journal of the Chemical Society, Faraday Transactions 2, 78, 839-50, 1982.
11	C. D. Flint and P.A. Tanner, "Polarized infrared absorption spectrum of Cs ₂ UO ₂ Cl ₄ ", Journal of the Chemical Society, Faraday Transactions 2, 78, 953-8, 1982.
12	C. D. Flint and P.A. Tanner, "UO ₂ F ₄ ²⁻ : a new uranyl complex ion", Polyhedron, 1, 835-6, 1982.
13	C. D. Flint, P. A. Tanner and P. Sharma, "Splitting of the luminescence excited state of the uranyl ion", Journal of Physical Chemistry, 86, 1921-2, 1982.
14	C. D. Flint and P.A. Tanner, "Luminescence and vibrational spectra of a new binuclear uranyl complex (C ₂ H ₅) ₄ [UO ₂ F(NO ₃) ₂] ₂ ", Polyhedron, 2, 628-6, 1983.
15	C.D. Flint, P.A. Tanner, R. Reisfeld and H. Tzeboval, "Site-selective spectroscopy of the uranyl ion in borosilicate glass", Chemical Physics Letters, 102, 249-253, 1983.
16	C. D. Flint and P.A. Tanner, "Luminescence and absorption spectra of Rb ₂ UO ₂ Br ₄ .xH ₂ O", Molecular Physics, 50, 625-33, 1983, Erratum, Ibid, 52, 251, 1984.
17-19	C. D. Flint and P.A. Tanner, "Vibronic spectra of U ⁴⁺ in octahedral crystalline fields: I. 647.1nm excited luminescence spectrum of Cs ₂ ZrBr ₆ :UBr ₆ ²⁻ ", Molecular Physics, 53, 429-36, 1984. II. 488 nm excited luminescence spectrum of Cs ₂ ZrBr ₆ :UBr ₆ ²⁻ ", Molecular Physics, 53, 437-57, 1984. III. 514.5 nm excited infrared luminescence spectrum of Cs ₂ ZrBr ₆ :UBr ₆ ²⁻ ", Molecular Physics, 53, 801-11, 1984.
20	C. D. Flint and P.A. Tanner, "Luminescence and vibrational spectra of the uranyl compound [(CH ₃) ₄ N] ₂ UO ₂ F ₄ ", Journal of the Chemical Society, Faraday Transactions 2, 80, 219-26, 1984.
21	P.A. Tanner, "Normal-coordinate analyses of some uranyl halide complexes", Journal of the Chemical Society, Faraday Transactions 2, 80, 365-73, 1984.
22-24	P.A. Tanner, "Vibronic spectra of TmX ₆ ³⁻ in octahedral crystalline fields. I. ³ F ₃ , ³ H ₄ , ³ H ₅ and ³ H ₆ luminescence spectrum of TmCl ₆ ³⁻ excited by energy transfer from Cs ₂ NaHoCl ₆ ", Molecular Physics, 53, 813-34, 1984. II. "Luminescence spectrum of Cs ₂ NaGdCl ₆ :TmCl ₆ ³⁻ ", Molecular Physics, 53, 835-47, 1984. III. "Infrared luminescence spectrum of Cs ₂ NaTmCl ₆ and crystal-field analysis", Molecular Physics, 54, 883-94, 1985.
25	P.A. Tanner, "Luminescence and absorption spectra of TmBr ₆ ³⁻ ", Journal of the Chemical Society, Faraday Transactions 2, 81, 1285-1300, 1985.
26	P.A. Tanner, " ⁵ I ₇ - ⁵ I ₈ infrared luminescence spectrum of Cs ₂ NaHoCl ₆ ", Chemical Physics Letters, 119, 213-6, 1985.
27	P.A. Tanner, "Electronic spectra of PrCl ₆ ³⁻ ", Molecular Physics, 57, 697-735, 1986.
28	P.A. Tanner, "Excitation and absorption spectra of Cs ₂ NaErCl ₆ ", Molecular Physics, 57, 737-54, 1986.

29	P.A. Tanner, " ${}^5F_3 - {}^5I_7$ and ${}^5F_5 - {}^5I_8$ luminescence transitions of HoCl_6^{3-} ", Chemical Physics Letters, 126, 137-42, 1986.
30	P.A. Tanner, "Electronic spectra of Yb^{3+} in elpasolite lattices", Molecular Physics, 58, 317-28, 1986.
31	P.A. Tanner, "Energy levels of Tm^{3+} in cubic symmetry", Journal of Chemical Physics, 85, 2344, 1986.
32	P.A. Tanner, "Assignment of the 5I_5 crystal-field levels of HoCl_6^{3-} ", Journal of Physical Chemistry, 90, 5605-8, 1986.
33	P.A. Tanner, "Energy levels of HoBr_6^{3-} ", Chemical Physics Letters, 132, 116-20, 1986.
34	P.A. Tanner, "Energy transfer in $\text{Cs}_2\text{NaHo}_{0.99}\text{Er}_{0.01}\text{Cl}_6$ and assignment of the 5I_6 and 5I_4 levels of HoCl_6^{3-} ", Journal of the Chemical Society, Faraday Transactions 2, 83, 553-68, 1987.
35	P.A. Tanner, "Energy levels of Ho^{3+} in HoCl_6^{3-} ", Journal of the Chemical Society, Faraday Transactions 2, 83, 1367-90, 1987.
36	M.F. Reid, F.S. Richardson and P.A. Tanner, "Comparison of $4f^2$ energy parameters for Pr^{3+} in cubic elpasolite crystals", Molecular Physics, 60, 881-86, 1987.
37	P.A. Tanner, A. DePiante, F.S. Richardson and M.F. Reid, "Energy levels of Er^{3+} in $\text{Cs}_2\text{NaErCl}_6$ ", Molecular Physics, 60, 1037-45, 1987.
38	C.D. Flint and P.A. Tanner, "Vibronic spectra of U^{4+} in octahedral crystal fields: IV. Absorption spectra and crystal-field calculations", Molecular Physics, 61, 389-407, 1987.
39	C.K. Jayasankar, F.S. Richardson, M.F. Reid and P.A. Tanner, "Analysis and comparison of holmium $4f^{10}$ energy levels in $\text{Cs}_2\text{NaHoCl}_6$ and $\text{Cs}_2\text{NaHoBr}_6$ ", Molecular Physics, 61, 635-44, 1987.
40	R. Acevedo, G. Diaz, C.D. Flint and P.A. Tanner, "Vibrational wavenumbers and normal-coordinate analysis for the YbCl_6^{3-} ion", Anales de Quimica, 84B, 172-175, 1988.
41	P.A. Tanner, "Luminescence of lanthanide ions in hexachloroelpasolites", Chemical Physics Letters, 145, 134-38, 1988.
42	P.A. Tanner, "Luminescence and radiative decay of Er^{3+} in $\text{Cs}_2\text{NaErCl}_6$ ", Molecular Physics, 63, 365-85, 1988.
43	P.A. Tanner and N. Edelstein, "Luminescence and energy levels of Nd^{3+} doped YVO_4 ", Chemical Physics Letters, 152, 140-6, 1988.
44	P.A. Tanner, C.K. Jayasankar and F.S. Richardson, "Electronic spectra and crystal-field analysis of DyCl_6^{3-} in elpasolite lattices", Molecular Physics, 65, 49-63, 1988.
45	P. A. Tanner, "Vibronic analysis of the (${}^4G_{5/2}$) $\Gamma_8 - {}^6H_{5/2}, {}^6H_{7/2}, {}^6H_{9/2}$ luminescence transitions of $\text{Cs}_2\text{NaYCl}_6:\text{SmCl}_6^{3-}$ ", Chemical Physics Letters, 155, 59-63, 1989.
46	P.A. Tanner, "Excitation and luminescence spectra of $\text{UO}_2\text{F}_4^{2-}$ ", Spectrochimica Acta, 46A, 1259-62, 1990.
47	P.A. Tanner, F.S. Richardson and J. Quagliano, "Luminescence and excitation spectra of Nd^{3+} in $\text{Cs}_2\text{NaGdCl}_6:\text{NdCl}_6^{3-}$ ", Journal of the Chemical Society, Faraday Transactions 2, 87, 1707-14, 1991.
48	P.A. Tanner and G.G. Siu, "Electric quadrupole allowed transitions of lanthanide ions in octahedral symmetry", Molecular Physics, 75, 233-42, 1992.
49	P.A. Tanner, T.-H. Sze, T.C. Mak and W.-H. Yip, "Synthesis, crystal structure and vibrational spectra of uranium (IV) hypophosphate, Journal of Crystallographic and Spectroscopic Research, 22, 25-30, 1992.
50	P.A. Tanner, T.H. Sze, T.C. Mak and R.-J. Wang, "Synthesis, structure and vibrational spectra of a new uranium(IV) complex: $\text{UCl}(\text{H}_2\text{PO}_2)_3 \cdot 2\text{H}_2\text{O}$ ", Polyhedron, 11, 817-22, 1992.
51	P.A. Tanner and C.Z. Rudowicz, " Eu^{3+} ion luminescence crystal structure determination for lanthanide sesquioxides", Applied Spectroscopy, 47, 127-8, 1993.
52	P.A. Tanner, J W C James, K Chan and L S Leong, "Variations in trace metal and total organic carbon concentrations in Marine sediments from Hong Kong", Environmental Technology, 14, 501-16, 1993.
53	P.A. Tanner, N.Q. Dao and J.P Silvestre, "X-ray crystallographic and spectroscopic structural studies of $\text{UBr}(\text{H}_2\text{PO}_2)_3 \cdot 2\text{H}_2\text{O}$ ", New Journal of Chemistry, 17, 263-266, 1993.
54	P.A. Tanner, T K Choi and K Hoffman, "Energy transfer by ion-ion cross relaxation in $\text{Cs}_2\text{NaTmCl}_6$ ", Applied Spectroscopy, 47, 1084-1086, 1993
55	P.A. Tanner, M. Chua and M.F. Reid, "Energy transfer by magnetic dipole-magnetic dipole interaction", Chemical Physics Letters, 209, (No. 5/6), 539-546, 1993.
56	P.A. Tanner and M.-Y. Shen, "Superparametrization of low-temperature vibrational data for lanthanide hexahalides", Spectrochimica Acta, 50A (5) 997-1003, 1994.
57	P.A. Tanner and J. Krishnan, "Low temperature solid-state electronic absorption Fourier transform spectroscopy, Applied Spectroscopy, 47 (No. 9), 1522-1530, 1993.
58	P.A. Tanner and Y.L. Liu, "Raman, electronic Raman and luminescence spectrum of $\text{Cs}_2\text{NaEuCl}_6$ ", Journal of

	Alloys and Compounds, 204 (1/2), 207-214, 1994.
59	P.A. Tanner, "On the luminescence of UO_2^{2+} -datura", Applied Spectroscopy, 47 (No. 11), 1949-50, 1993.
60	P.A. Tanner, Y.L. Liu and M. Chua and M.F. Reid, "Non resonant energy transfer from the $^5\text{D}_4$ level of Tb^{3+} to the $^5\text{D}_0$ level of Eu^{3+} ", Journal of Alloys and Compounds, 207/208, 83-86, 1994.
61	M. Chua, P.A. Tanner and M.F. Reid, "Energy transfer between lanthanide ions in elpasolite lattices: electric quadrupole-electric quadrupole interaction", Journal of Luminescence, 58, 356-360, 1994.
62	M. Chua, P.A. Tanner and M.F. Reid, "Phonon-assisted energy transfer", Journal of Luminescence, 60/61, 838-841, 1994.
63	J.Y. Zhou, W.J. Peng, P.A. Tanner, M.L. Gong and Y.S. Yang, "Spectral and temporal resolved emission of europium compounds studied with picosecond dye laser excitation", Applied Spectroscopy, 47 (12), 2175-2177, 1993.
64	M. Chua, P.A. Tanner and M.F. Reid, "Energy transfer by electric dipole-magnetic dipole interaction in cubic crystals", Solid State Communications, 90 (9), 581-583, 1994.
65	P.A. Tanner, J. Shamir and P. Starostin, "Raman spectra of hypophosphite compounds: correlation with structure", Journal of Molecular Structure, 326, 267-269, 1994.
66	P.A. Tanner, V.V. Ravi Kanth Kumar, C.K. Jayasankar and M.F. Reid, "Analysis of spectral data and comparative energy level parametrizations for Ln^{3+} in cubic elpasolite crystals", Journal of Alloys and Compounds, 215, 349-370, 1994.
67	P.A. Tanner, S.M. Chan, H.P. Lam, W.Y. Lee, K.Y. Cheung, F.P. Kan, S.C. Cheung, Y.S. Lam and L.M. Ho, "Preliminary study of Hong Kong rainfall", Atmospheric Environment, 30, 2453-2454, 1996.
68	P.A. Tanner and L.S. Leong, "The effects of different drying methods for marine sediment upon moisture content and metal determination", Marine Pollution Bulletin, 31, 325-329, 1995.
69	P.A. Tanner, "Luminescence of U^{3+} -doped hexachloroelpasolite", Journal of Molecular Structure, 355, 299-302, 1995.
70	P.A. Tanner, V.V.R.K. Kumar, C.K. Jayasankar and M.F. Reid, "Comparative energy level parametrizations for lanthanide ions in octahedral symmetry environments", Journal of Alloys and Compounds, 225, 85-88, 1995.
71	P.A. Tanner, M. Chua and M.F. Reid, "Energy transfer between lanthanide ions in elpasolite lattices", Journal of Alloys and Compounds, 225, 20-23, 1995.
72	P.A. Tanner, J.Y. Zhou and W.J. Peng, "Picosecond Raman and emission spectroscopy of lanthanide compounds", Journal of Alloys and Compounds, 225, 99-102, 1995.
73	P.A. Tanner, "Spectroscopic probing of site-symmetry in solids", Journal of Molecular Structure, 405, 103-111, 1997.
74	P.A. Tanner, Y.-L. Liu, S. Xia and Y. Ma, "Raman and electronic Raman spectra of lanthanide ions in elpasolite lattices", Physical Review B55, 12182-12195, 1997.
75	P.A. Tanner and K.H. Leung, "Spectral interpretation and qualitative analysis of organophosphorus pesticides using FT-Raman and FT-infrared spectroscopy", Applied Spectroscopy, 50, 565-571, 1996.
76	R. Acevedo, P.A. Tanner, T. Meruane and V. Poblete, "Vibronic intensities in the absorption spectra of Yb^{3+} ", Physical Review B, 54, 3976-3988, 1996.
77	P.A. Tanner and S.M. Chan, "Application of ion chromatography to Hong Kong rainfall monitoring program", Journal of Chromatography, A739, 249-256, 1996.
78	M. Chua and P.A. Tanner, "Three-body energy transfer processes of lanthanide ions", Journal of Luminescence, 66&67, 203-207, 1996.
79	M.D. Faucher, O.K. Moune, D. Garcia and P. Tanner, "Evidence for strong interaction between the $5f^2$ and $5f^17p^1$ configurations of U^{4+} in the octahedral sites of Cs_2UBr_6 and Cs_2ZrBr_6 ", Physical Review B53, 9501-9504, 1996.
80	P.A. Tanner, H.-C. Lei, M.-Y. Huang and Z.-L. Shen, "Acid rain and below-cloud scavenging in south-western China", Journal of Atmospheric Chemistry, 27, 71-78, 1997.
81	T.C. Wong, N.B. Wong and P.A. Tanner, "A Fourier-transform IR study of the phase transitions and molecular order in the hexadecyltrimethylammonium sulphate/water system", Journal of Colloid and Interfacial Science, 186, 325-331, 1997.
82	H.-C. Lei, P.A. Tanner, M.-Y. Huang, Z.-L. Shen and Y.-X. Wu, "The acidification process under the cloud in south-west China: observation results and simulation", Atmospheric Environment, 31, 851-861, 1997.
83	M. Chua and P.A. Tanner, "Direct calculation of the two-photon line strength of a $\Gamma_{1g} - \Gamma_{1g}$ transition in octahedral symmetry", Physical Review B54, R11014-R11017, 1996.

84	P.A. Tanner and A.Y.S. Wong, "Atmospheric gases, particulates and rainfall concentrations during summer monsoon events", <i>International Journal of Environmental Analytical Chemistry</i> , 67, 185-202, 1997.
85	S.M. Crooks, M.F. Reid, P.A. Tanner and Y.Y. Zhao, "Vibronic intensity parameters for Er ³⁺ in Cs ₂ NaErCl ₆ ", <i>Journal of Alloys and Compounds</i> , 250, 297-301, 1997.
86	P.A. Tanner, Y.-L. Liu, T.C.W. Mak, "Syntheses, crystal structures and vibrational spectra of zinc hypophosphites", <i>Polyhedron</i> , 16, 495-505, 1997.
87	P.A. Tanner, Z.-W. Pei, J. Lin, Y.-L. Liu and Q. Su, "Luminescence of uranium-doped strontium tetraborate", <i>Journal of Physics and Chemistry of Solids</i> , 58, 1143-1146, 1997.
88	P.A. Tanner, Y.-L. Liu, N. Edelstein, K. Murdoch and N.M. Khaidukov, "Vibrational and electronic spectra of EuF ₆ ³⁻ ", <i>Journal of Physics: Condensed Matter</i> , 9, 7817-7836, 1997.
89	P.A. Tanner, J. Dexpert-Ghys, Z.-W. Pei and J. Lin, "Reported blue upconversion from U ⁴⁺ -doped into Cs ₂ ZrCl ₆ single crystal under green excitation", <i>Chemical Physics</i> , 215, 125-130, 1997.
90	P.A. Tanner and L.S. Leong, "Microwave vacuum drying of marine sediment: determination of moisture content, metals and total carbon", <i>Analytica Chimica Acta</i> , 342, 247-252, 1997.
91	L.S. Leong and P.A. Tanner, "Spatial and temporal variations in abundant and trace metal concentrations in coastal sediment from near Yim Tin Tsai, Tolo Harbour, Hong Kong". <i>Toxicological and Environmental Chemistry</i> , 62, 77-90, 1997.
92	M. Chua and P.A. Tanner, "Direct calculation of electronic Raman scattering for Ce ³⁺ in Cs ₂ NaCeCl ₆ ". <i>Chemical Physics</i> , 218, 83-86, 1997.
93	A.Y.S. Wong and P.A. Tanner, "Monitoring environmental pollution in Hong Kong: trends and prospects", <i>Trends in Analytical Chemistry</i> , 16, 180-190, 1997.
94	M.F. Joubert, S. Guy, S. Cuerq and P.A. Tanner, "Room-temperature blue upconverted luminescence via photon avalanche pumping in Cs ₂ NaGdCl ₆ :Tm". <i>Journal of Luminescence</i> , 75, 287-293, 1997.
95	M. Chua, P.A. Tanner and S. Xia, "Comparison of direct and Judd-Ofelt-Axe calculations of electronic Raman scattering intensities of Pr ³⁺ ". <i>Chemical Physics Letters</i> , 274, 554-560, 1997.
96	M. Chua and P.A. Tanner, "Analysis of the (⁷ F ₀) Γ _{1g} - Γ _{1g} (⁵ D ₀) two-photon transition of Sm ²⁺ in SrF ₂ ". <i>Physical Review B</i> 56, 7967-7973, 1997.
97	M. Chua and P.A. Tanner, "Energy transfer and migration in highly forbidden transitions of lanthanide ion doped crystals", <i>Chemical Physics</i> , 250, 267-278, 1999.
98	P.A. Tanner and A.Y.S. Wong, "Analysis of hydrogen peroxide in rainwater", <i>Analytica Chimica Acta</i> , 370, 279-287, 1998.
99	P.A. Tanner and L.S. Leong, "Microwave vacuum drying of marine sediment prior to analysis for carbon and metals", <i>American Environmental Laboratory</i> , 10, 20-21, 1998.
100	P.A. Tanner, "Relationships between rainwater composition and synoptic weather systems deduced from measurement and analysis of Hong Kong daily bulk deposition data", <i>Journal of Atmospheric Chemistry</i> , 33, 219-240, 1999.
101	P.A. Tanner, "Analysis of Hong Kong daily bulk and wet deposition data from 1994-1995", <i>Atmospheric Environment</i> , 33, 1757-1766, 1999.
102	P.A. Tanner, M.D. Faucher and T.C.W. Mak, "Synthesis, structures and spectroscopy of rare earth hypophosphites: 1. Anhydrous and monohydrated lanthanide hypophosphites." <i>Inorganic Chemistry</i> , 38, 6008-6023, 1999.
103	P.A. Tanner and T.C.W. Mak, "Synthesis, structures and spectroscopy of rare earth hypophosphites: 2. Uranyl hypophosphite monohydrate and uranyl hypophosphite hypophosphorous acid adduct." <i>Inorganic Chemistry</i> , 38, 6024-6031, 1999.
104	L.S. Leong and P.A. Tanner, "Comparison of methods for determination of organic carbon in marine sediment", <i>Marine Pollution Bulletin</i> , 38, 875-879, 1999.
105	P.A. Tanner, M. Chua, W.-M. Kwok and D.L. Phillips, "Energy transfer and upconversions in cubic Cs ₂ NaYCl ₆ :Er ³⁺ and Cs ₂ NaErCl ₆ ", <i>Physical Review</i> , B 60, 13902-13904, 1999.
106	P.A. Tanner and L.S. Leong, "Metals in a marine sediment core from near Ma Wan, Hong Kong", <i>Water, Air and Soil Pollution</i> , 121 (1/4), 313-329, 2000.
107	P.A. Tanner, L.S. Leong and S.M. Pan, "Contamination of heavy metals in marine sediment cores from Victoria Harbour, Hong Kong", <i>Marine Pollution Bulletin</i> , 40, 769-779, 2000.
108	P.A. Tanner, C.S.K. Mak and T.C.W. Mak, "Synthesis, structure and spectroscopy of rare earth hypophosphites: 3. Ytterbium hypophosphite", <i>Polyhedron</i> , 19, 863-870, 2000.
109	P.A. Tanner, O. Hurtado, T. Meruane and R. Acevedo, "Vibronic oscillator strengths of Tm ³⁺ in

	Cs ₂ NaTmCl ₆ ", Journal of Alloys and Compounds, 323-324, 718-721, 2001.
110	P.A. Tanner, B. Yan and H. Zhang, "Preparation and luminescence properties of sol-gel hybrid materials incorporated with europium complexes", Journal of Materials Science, 35, 4325-4328, 2000.
111	H.Y. Cheung, S.Q. Sun, B. Sreedhar, W.M. Ching and P.A. Tanner, "Alterations in extracellular substances during the biofilm development of <i>Pseudomonas aeruginosa</i> on aluminium", Journal of Applied Microbiology, 89, 90-99, 2000.
112	P.A. Tanner, S.M. Pan, S.Y. Mao and K.N. Yu, "γ-ray spectrometric and α-counting method comparison for the determination of Pb-210 in estuarine sediments", Applied Spectroscopy, 54, 1443-1446, 2000.
113	P.A. Tanner and W.F. Tam, "Small-scale horizontal variations in ionic concentrations of rainwater from Hong Kong", Water, Air and Soil Pollution, 122, 433-448, 2000.
114	P.A. Tanner and A.Y.S. Wong, "Soluble trace metals and major species in the bulk deposition and atmosphere of Hong Kong", Water, Air and Soil Pollution, 122, 261-279, 2000.
115	P.A. Tanner, L.S. Leong, S.M. Pan and Z. Yu, "Mössbauer study of sediment cores from Victoria Harbour, Hong Kong", Applied Radiation and Isotopes, 53, 1017-1021, 2000.
116	P.A. Tanner and P.-T. Law, "Effects of synoptic weather systems upon the air quality in an Asian megacity", Water, Air and Soil Pollution, 136 (1-4), 105-124, 2002.
117	P.A. Tanner, R.S.W. Yin, "Use of preformed sols in the synthesis of luminescent lanthanide ion doped yttria", Journal of Materials Science, 36, 2253-2255, 2001.
118	P.A. Tanner, C.S.K. Mak, Z.W. Pei, Y.L. Liu and L. Jun, "Luminescence of uranyl-ion-doped elpasolite lattice", Journal of Physics: Condensed Matter, 13, 189-194, 2001.
119	W.F.C. Tam, P.A. Tanner, P.T.R. Law, K. Bächmann and S. Pötzsch, "Use of capillary electrophoresis in the analysis of aerosol and bulk/dry deposition collected on a daily basis", Analytica Chimica Acta, 427, 259-269, 2001.
120	P.A. Tanner and Z.W. Pei, "Cooperative electronic absorption in Eu ₂ O ₂ S", Journal of Physics and Chemistry of Solids, 62, 683-686, 2001.
121	P.A. Tanner, P.T. Law and W.F. Tam, "Comparison of aerosol and dry deposition sampled at two sites in southern China", Journal of Aerosol Science, 32, 461-472, 2001.
122	S. Xia, M. Chua and P.A. Tanner, "Different viewpoints of electric dipole-electric dipole interaction in the calculation of the energy transfer rate of rare earths in insulators", Chemical Physics Letters, 345, 303-308, 2001.
123	C.S.K. Mak and P.A. Tanner, "Absorption spectroscopy of Er:GdCOB and Yb:GdCOB crystals", Journal of Alloys and Compounds, 323-324, 292-296, 2001.
124	P.A. Tanner, C.S.K. Mak and M.D. Faucher, "Configuration interaction of Pr ³⁺ in PrCl ₆ ³⁻ ", Journal of Chemical Physics, 114, 10860-10871, 2001.
125	K.M. Wai and P.A. Tanner, "Monitoring long-term variation of aerosol composition: a dual particle-size approach applied to Hong Kong", Environmental Monitoring and Assessment, 79, 275-286, 2002.
126	P.A. Tanner, C.S.K. Mak and M.D. Faucher, "4f ⁵ d - 4f ² emission transitions of Pr ³⁺ ", Chemical Physics Letters, 343, 309-314, 2001.
127	J.W.T. Tung and P.A. Tanner, "Instrumental determination of organic carbon in marine sediments", Marine Chemistry, 80 (2-3), 161-170, 2003.
128	P.A. Tanner and P.T. Law, "Organic acids in the atmosphere and bulk deposition of Hong Kong", Water, Air and Soil Pollution, 142, 279-297, 2003.
129	C.S.K. Mak, P.A. Tanner, Th. Tröster and S. Xia, "Pressure-dependence study on the electron-phonon coupling of thulium hexachloroelpasolite", Journal of Physics and Chemistry of Solids, 63, 1623-1625, 2002.
130	S. Xia and P.A. Tanner, "Theory of one-phonon-assisted energy transfer between rare earth ions in crystals", Physical Review B66, 214305, 2002 (17 pages).
131	P.A. Tanner, C.S.K. Mak and G.G. Siu, "Additional bands in the FT-Raman spectra of lanthanide compounds", Applied Spectroscopy, 56, 670-673, 2002.
132	A. Collombet, Y. Guyot, C.S.K. Mak, P.A. Tanner and M.-F. Joubert, "Spectroscopic investigation of the Nd ³⁺ 4f ² 5d states in chloroelpasolite crystals", Journal of Luminescence, 94, 39-43, 2001.
133	P.A. Tanner, C.S.K. Mak, W.-M. Kwok, D.L. Phillips and M.D. Faucher, "Ultraviolet f - f emission and crystal field analysis for Er ³⁺ in Cs ₂ NaErCl ₆ ", Physical Review B66, 165203 (13 pages), 2002.
134	P.A. Tanner, C.S.K. Mak, W.-M. Kwok, D.L. Phillips and M.-F. Joubert, "Luminescence from the ³ P ₂ state of Tm ³⁺ ", Journal of Physical Chemistry B 106 (14) 3606-3611, 2002.
135	P.A. Tanner, C.S.K. Mak, M.D. Faucher, W.M. Kwok, D.L. Phillips and V. Mikhailik, "4f - 5d transitions of Pr ³⁺ in elpasolite lattices", Physical Review B67, 115102 (19 pages), 2003.

136	D. Wang, L. Ning, S. Xia and P.A. Tanner, "Theoretical analysis of the two-photon absorption spectrum of Tb ³⁺ in Cs ₂ NaTbCl ₆ ", <i>Journal of Physics: Condensed Matter</i> , 15, 2681-2691, 2003.
137	L. Ning, P.A. Tanner and S. Xia, "Unit cell group analysis of rare earth elpasolites", <i>Vibrational Spectroscopy</i> , 31, 51-61, 2003.
138	L. Ning, S. Xia and P.A. Tanner, "Third-order contributions to the ⁷ F ₀ → ⁵ D ₂ two-photon transition of Eu ³⁺ in cubic lattices", <i>Journal of Physics: Condensed Matter</i> , 14, 8677 (1-9), 2002.
139	L. Ning, D. Wang, S. Xia, J.R.G. Thorne and P.A. Tanner, "Analysis of (⁷ F ₀)Γ _{1g} → (⁵ D ₂)Γ _{5g} , Γ _{3g} and (⁷ F ₀)Γ _{1g} → (⁵ L ₆)Γ _{1g} , aΓ _{5g} two-photon absorption spectra of Cs ₂ NaYF ₆ :Eu ³⁺ ", <i>Journal of Physics: Condensed Matter</i> , 14, 3833-3843, 2002.
140	M.D. Faucher and P.A. Tanner, "Full configuration interaction of Er ³⁺ and covalency in the elpasolite compound Cs ₂ NaErCl ₆ ", <i>Molecular Physics</i> , 101, 983-992, 2003.
141	M.D. Faucher, P.A. Tanner and C.S.K. Mak, "Electronic spectra and configuration interaction of Tm ³⁺ in TmCl ₆ ³⁻ ", <i>Journal of Physical Chemistry A</i> , 108, 5278-87, 2004.
142	P.A. Tanner, P.T. Law, K.L. Wong and L. Fu, "Preformed sol-gel synthesis and characterization of YAlO ₃ ", <i>Journal of Materials Science</i> , 38, 1-5, 2003.
143	K.M. Wai and P.A. Tanner, "Case studies of Asian dust storm impacts on a coastal site: implication of a good dust storm tracer", <i>Water, Air and Soil Pollution</i> , 168, 59-70, 2005.
144	K.M. Wai and P.A. Tanner, "Wind dependent seasalt aerosol in a Western Pacific coastal area", <i>Atmospheric Environment</i> , 38, 1167-1171, 2004.
145	P.A. Tanner, "Spectra, energy levels and energy transfer in high symmetry lanthanide compounds", <i>Topics in Current Chemistry</i> , 241, 167-278, 2004.
146	L. Ning, C.K. Duan, S. Xia, M.F. Reid and P.A. Tanner, "A model analysis of 4f ^N -4f ^{N-1} 5d transitions of rare-earth ions in crystals", <i>Journal of Alloys and Compounds</i> , 366, 34-40, 2004.
147	S.F. Kan and P.A. Tanner, "Inter-relationships and seasonal variations of inorganic components in PM ₁₀ in a Western-Pacific coastal city". <i>Water, Air and Soil Pollution</i> , 165, 113-130, 2005.
148	P.A. Tanner, P.-T. Law and L. Fu, "Preformed sol-gel synthesis and characterization of lanthanide ion-doped yttria-alumina materials", <i>Physica Status Solidi (c)</i> , 199, 403-415, 2003.
149	M. Chua, S. Xia and P.A. Tanner, "Energy transfer processes of Er ³⁺ in YAlO ₃ ", <i>Journal of Physics: Condensed Matter</i> , 15, 7423-7436, 2003.
150	P.A. Tanner, J.W.T. Tung and F.L.S. Leong, "Limitations for quantification of organic carbon in sediment from C-H stretching vibrations in DRIFT spectra", <i>Spectroscopy Letters</i> , 38, 271-282, 2005.
151	P.A. Tanner, C.S.K. Mak, N.M. Edelstein, G. Liu, J. Huang, L. Seijo and Z. Barandiaran, "Absorption and emission of Ce ³⁺ in elpasolite lattices", <i>Journal of the American Chemical Society</i> , 125, 13225-13233, 2003.
152	P.A. Tanner and K.L. Wong, "Synthesis and spectroscopy of lanthanide ion-doped Y ₂ O ₃ ", <i>Journal of Physical Chemistry B</i> , 108, 136-142, 2004.
153	L. Ning, Y. Jiang, S. Xia and P.A. Tanner, "Theoretical analysis and intensity calculation for the f-d absorption spectrum of U ³⁺ in the LiYF ₄ crystal", <i>Journal of Physics: Condensed Matter</i> , 15, 7337-7350, 2003.
154	S.F. Kan and P.A. Tanner, "Determination of platinum in roadside dust samples by dynamic reaction cell - inductively coupled plasma - mass spectrometry", <i>Journal of Analytical Atomic Spectrometry</i> , 19, 639-643, 2004.
155	J.W.T. Tung, I.S.C. Lee and P.A. Tanner, "Novel determination of elemental carbon in sediments by DRIFTS", <i>Environmental Chemistry</i> , 1, 104-106, 2004.
156	K.M. Wai and P.A. Tanner, "Extreme particulate levels at a Western Pacific coastal city: the influence of meteorological factors and the contribution of long-range transport", <i>Journal of Atmospheric Chemistry</i> , 50, 103-120, 2005.

157	P.A. Tanner, "Fluorescence and phosphorescence of Cr ³⁺ in cubic hosts", Chemical Physics Letters, 388, 488-493, 2004. Erratum 394, 288, 2004.
158	Y. Jiang, L. Ning, S. Xia, M. Yin and P.A. Tanner, "Third-order contributions to the ⁸ S _{7/2} → ⁶ P _{7/2} , ⁶ P _{5/2} two-photon transitions of Eu ²⁺ in KMgF ₃ ", Journal of Physics: Condensed Matter, 16, 2773-2784, 2004.
159	K.M. Wai and P.A. Tanner, "Relationship between the ionic composition in PM10 and the synoptic and meso-scale weather conditions in a South China coastal city: a four-year study", Journal of Geophysical Research - Atmospheres, 110, D18210, 2005. (13 pages)
160	D. Wang, S. Xia, M.D. Faucher and P.A. Tanner, "Direct calculation of electronic Raman scattering intensities in Cs ₂ NaPrCl ₆ ", Journal of Physics: Condensed Matter, 16, 6243-6255, 2004.
161	P.A. Tanner, X. Zhou, W.T. Wong, C. Kratzer and H. Yersin, "Structure and spectroscopy of Tb[Au(CN) ₂] ₃ ·3H ₂ O", Journal of Physical Chemistry B, 109, 13083-13090, 2005; Corrigendum 110, 21386, 2006.
162	K.M. Wai, P.A. Tanner and C.W.F. Tam, "Two-year study of chemical composition of bulk deposition in a South China coastal city: comparison with East Asian cities", Environmental Science and Technology, 39, 6542-6547, 2005.
163	P.A. Tanner, K.L. Wong, Y. Liang, "Multiple phase production on doping Er ³⁺ into α-Al ₂ O ₃ ", Chemical Physics Letters, 399, 15-19, 2004.
164	P. A. Tanner, X. Zhou F. Liu, "Assignment of electronic transitions and electron-phonon coupling of Er ³⁺ doped into Y ₂ O ₃ ", Journal of Physical Chemistry A, 108, 11521-11525, 2004.
165	X.X. Zhang, K.F. Li, K.W. Cheah, X. Zhou and P.A. Tanner, "1.54 μm and 1.75 μm infrared luminescence of Y ₂ O ₃ :Er ³⁺ ", Chemical Physics Letters, 400, 331-335, 2004.
166	G.-L. Law, K.-L. Wong, J.X. Zhou, W.-T. Wong and P. A. Tanner, "Crystal structure and luminescence of lanthanide monodentate complexes [Ln(C ₄ N ₄ H ₆ O) ₂ (H ₂ O) ₆]Cl ₃ and [Ln(C ₄ N ₄ H ₆ O) ₂ (H ₂ O) ₃ (NO ₃) ₃], (Ln = Tb or Eu)", Inorganic Chemistry, 44, 4142-4144, 2005.
167	S.F. Kan and P. A. Tanner, "Platinum concentrations in ambient aerosol at a coastal site in south China", Atmospheric Environment, 39, 2625-2630, 2005.
168	K.M. Wai, C.W.F. Tam and P.A. Tanner, "Observational and modeling studies of chemical species concentrations as a function of raindrop size", Atmospheric Environment, 39, 7872-7879, 2005.
169	P.A. Tanner, "Synthesis and luminescence of nano-insulators doped with lanthanide ions", Journal of Nanoscience and Nanotechnology, 5, 1455-1464, 2005.
170	S. Rengaraj, X.Z. Li, P.A. Tanner, Z. Pan and G.K.H. Pang, "Photocatalytic degradation of methylparathion - an endocrine disruptor by Bi ³⁺ -doped TiO ₂ ", Journal of Molecular Catalysis A, Chemical, 247, 36-43, 2005.
171	X. Zhou and P.A. Tanner, "Ultraviolet emission and unusual hot bands of Ho ³⁺ in elpasolite hosts", Chemical Physics Letters, 413, 284-288, 2005.
172	K. M. Wai, S. H. Wang, P. A. Tanner and N. H. Lin, "A dual site study of the rainwater chemistry within the Western Pacific region", Journal of Atmospheric Chemistry, 57, 85-103, 2007.
173	L. Ning, C.S.K. Mak, and P.A. Tanner, "High spin and low spin <i>f</i> – <i>d</i> transitions of Tb ³⁺ in elpasolite hosts", Physical Review B, 72, paper 085127, 2005. (7 pages).
174	X. Zhou, C.S.K. Mak, P.A. Tanner and M.D. Faucher, "Spectroscopic properties and configuration interaction assisted crystal field analysis of Nd ³⁺ in neat Cs ₂ NaNdCl ₆ ", Physical Review B73, 075113, 2006 (22 pages).
175	L.-P. Zhang, P.A. Tanner and T.C.W. Mak, "Two novel 5f-3d bimetallic cyano-bridged complexes", European Journal of Inorganic Chemistry, 8, 1543-1545, 2006.
176	P.A. Tanner and C.W.F. Tam, "In-cloud concentrations and below-cloud scavenging processes in Hong Kong, China", Environmental Chemistry, 3, 142-148, 2006.

177	P.A. Tanner, Z. Pan, N. Rakov and G.S. Maciel, "Luminescence of Eu^{3+} in $\alpha\text{-Al}_2\text{O}_3$ powders", <i>Journal of Alloys and Compounds</i> , 424, 347-349, 2006.
178	S.F. Kan and P.A. Tanner, "Water soluble and total sulphur in particulate matter determined by inductively coupled plasma dynamic reaction cell mass spectrometry (ICP-DRC-MS)", <i>Environmental Chemistry</i> , 3, 149-153, 2006.
179	M.C. Yeung, S.C. Lee, B.H. Lun and P.A. Tanner, "Summer rain events in south-east Asia: spatial and temporal variations", <i>Journal of Atmospheric Research</i> , 86, 2007, 241-248.
180	X. Zhou, M.F. Reid, M.D. Faucher, P.A. Tanner, "Electronic spectra of $\text{Cs}_2\text{NaYbF}_6$ and crystal field analyses of YbX_6^{3-} ($X = \text{F}, \text{Cl}, \text{Br}$)", <i>Journal of Physical Chemistry B</i> , 110, 14939-14942, 2006.
181	C. Ma, P.A. Tanner, S. Xia, M. Yin, "Analysis of VUV and optical spectra of Cs_2NaYF_6 crystals doped with Tm^{3+} ", <i>Optical Materials</i> , 29, 1620-1624, 2007.
182	P.A. Tanner, L. Ning, V.N. Makhov, N.M. Khaidukov, M. Kirm, "Inter- and intra-configurational transitions of Nd^{3+} in hexafluoroelpasolite lattices", <i>Journal of Physical Chemistry B</i> , 110, 12113-12118, 2006.
183	X.-J. Zhou, P.A. Tanner, M.D. Faucher, "Luminescence of $\text{Cs}_2\text{NaScCl}_6:\text{Pr}^{3+}$: effects of changing the elpasolite lattice parameter", <i>Spectroscopy Letters</i> , 40 (2), 349-366, 2007.
184	M.D. Faucher, P.A. Tanner, "Energy levels and hypersensitivity of samarium(III) in the elpasolite $\text{Cs}_2\text{NaSmCl}_6$ ", <i>Journal of Physics: Condensed Matter</i> , 18, 8503-8522, 2006.
185	Z. Pan, L. Ning, B.-M. Cheng, P.A. Tanner, "Absorption, excitation and emission spectra of $\text{SrCl}_2:\text{Eu}^{2+}$ ", <i>Chemical Physics Letters</i> , 428, 78-82, 2006.
186	X.-J. Zhou, P.A. Tanner, M.D. Faucher, "Electronic spectra and crystal field analysis of Er^{3+} in $\text{Cs}_2\text{NaErF}_6$ ", <i>Journal of Physical Chemistry C</i> , 111, 683-687, 2007.
187	L. Ning, P.A. Tanner, V.V. Harutunyan, E. Aleksanyan, V.N. Makhov, M. Kirm, "Luminescence and excitation spectra of $\text{YAG}:\text{Nd}^{3+}$ excited by synchrotron radiation", <i>Journal of Luminescence</i> , 127, 397-403, 2007.
188	P.A. Tanner, L. Yu, "Photoluminescence of $\text{ZnO}:\text{Eu}^{3+}$ nanoflowers", <i>Journal of Nanoscience and Nanotechnology</i> , 8, 1307-1311, 2008.
189	P.A. Tanner, L. Fu, L. Ning, B.-M. Cheng, M.G. Brik, "Soft synthesis and vacuum ultraviolet spectra of $\text{YAG}:\text{Ce}^{3+}$ nanocrystals: reassignment of Ce^{3+} energy levels", <i>Journal of Physics: Condensed Matter</i> 19, 216213, 2007. (14 pp.).
190	G.-L. Law, W.-M. Kwok, W.-T. Wong, K.-L. Wong, P.A. Tanner, "Terbium luminescence sensitized through three-photon excitation in a self-assembled unlinked antenna", <i>Journal of Physical Chemistry B</i> , 111, 10858-10861, 2007.
191	C.-K. Duan, P.A. Tanner, V.N. Makhov, M. Kirm, "Vacuum ultraviolet spectra and crystal field analyses of YAlO_3 doped with Nd^{3+} and Er^{3+} ", <i>Physical Review B</i> , 75, 195130, 2007. (12 pages).
192	X. Zhou, L.-P. Zhang, T.C.W. Mak, P.A. Tanner, "Reassignment of the space group of crystalline $\text{Pr}[\text{M}(\text{CN})_6] \cdot 5\text{H}_2\text{O}$ ($\text{M} = \text{Cr}, \text{Fe}, \text{Co}$)", <i>Polyhedron</i> , 26, 4019-4023, 2007.
193	X. Zhou, S. Xia, P.A. Tanner, "Effective Spin Hamiltonian Model for Superexchange Interaction Between Rare Earth Ions", <i>Journal of Physical Chemistry B</i> , 111, 8677-8679, 2007.
194	X. Zhou, P.A. Tanner, C.K. Duan, B.-M. Cheng, "Downconversion in $\text{Cs}_2\text{NaErCl}_6$ ", <i>Chemical Physics Letters</i> , 442, 302-306, 2007.
195	K.-L. Wong, G.-L. Law, M.B. Murphy, P.A. Tanner, W.-T. Wong, P.K.S. Lam, M.H.-W. Lam, "Functionalized Europium Nanorods for in vitro Imaging", <i>Inorganic Chemistry</i> , 47, 5190-5196, 2008.
196	X. Zhou, C.-K. Duan, P.A. Tanner, "Luminescence and crystal field analysis of Eu^{3+} in $\text{Eu}[\text{Co}(\text{CN})_6] \cdot 4\text{H}_2\text{O}$ ", <i>Journal of Physics and Chemistry of Solids</i> , 68, 1921-1925, 2007. Corrigendum 69, 1038, 2008.
197	P.A. Tanner, "Vehicle-related ammonia emissions in Hong Kong", <i>Environmental Chemistry Letters</i> , 7, 37-40, 2009.

198	P.A. Tanner, M.D. Faucher, "Electronic spectra and crystal field analysis of TmF_6^{3+} ", <i>Chemical Physics Letters</i> , 445, 183-187, 2007.
199	G.-L. Law, K.-L. Wong, Y.-Y. Yang, Q.-Y. Yi, G. Jia, W.-T. Wong, P.A. Tanner, "Structural characterisation of shielded isomeric europium complexes with metal-metal contact", <i>Inorganic Chemistry</i> , 46, 9754-9759, 2007.
200	X. Zhou, W.-T. Wong, M.D. Faucher, P.A. Tanner, "Crystallographic and infrared spectroscopic study of bond distances in $\text{Ln}[\text{Fe}(\text{CN})_6] \cdot 4\text{H}_2\text{O}$ (Ln = lanthanide)", <i>Journal of Solid State Chemistry</i> , 181, 3057-3064, 2008.
201	Z. Pan, C.-K. Duan, P.A. Tanner, "Electronic spectra and crystal field analysis of Yb^{2+} in SrCl_2 ", <i>Physical Review B</i> , 77, 085114 (13 pp.), 2008.
202	K.-M. Wai, K.-Y. Leung, P.A. Tanner, "Observational and modeling study of dry deposition on surrogate surfaces in a South China city: implication of removal of atmospheric crustal particles", <i>Environmental Monitoring and Assessment</i> , 164, 143-152, 2010.
203	J. Wang, P.A. Tanner, "Energy transfer and photoextinction from Ln^{3+} to Tb^{3+} and Eu^{3+} in aqueous chloride solutions", <i>Journal of Luminescence</i> , 128, 1846-1850, 2008.
204	G.-H. Jia, P.A. Tanner, M.-Y. Lin, B.-M. Cheng, C. Tu, J. Li, "Ultraviolet spectra of $\text{KPb}_2\text{Cl}_5:\text{Er}^{3+}$ ", <i>Applied Physics Letters</i> , 92, 101115 (3 pp.), 2008.
205	P.A. Tanner, J. Wang, "Energy transfer from Gd^{3+} to Tb^{3+} in solution", <i>Chemical Physics Letters</i> , 455, 335-338, 2008.
206	C.K. Duan, P.A. Tanner, Simulation of 4f-5d transitions of Yb^{2+} in potassium and sodium halides, <i>Journal of Physics: Condensed Matter</i> , 20, 215228 (6 pp.), 2008.
207	G.-H. Jia, P.A. Tanner, "Energy transfer between UO_2^{2+} and Eu^{3+} in $\beta\text{-NaYF}_4$," <i>Journal of Alloys and Compounds</i> , 471, 557-560, 2009.
208	H.L. Ma, P.A. Tanner, "Speciated isotope dilution analysis of Cr(III) and Cr(VI) in water by ICP-DRC-MS", <i>Talanta</i> , 77, 189-194, 2008.
209	P. A. Tanner, H.-L. Ma, P.K.N. Yu, "Fingerprinting metals in urban street dust of Beijing, Shanghai and Hong Kong". <i>Environmental Science and Technology</i> , 42, 7111-7117, 2008.
210	H.-L. Ma, P.A. Tanner, "Determination of chromium in airborne particulate matter by inductively coupled plasma dynamic reaction cell mass spectrometry", <i>Journal of Environmental Monitoring</i> , 10, 1217-1221, 2008.
211	B.-M. Cheng, C.-K. Duan, P.A. Tanner, "Vacuum ultraviolet and visible spectra of Eu^{3+} in $\text{Y}_2\text{O}_2\text{S}$ and $\text{Eu}_2\text{O}_2\text{S}$ ", <i>Optical Materials</i> , 31, 902-904, 2009.
212	B.-M. Cheng, L. Yu, C.-K. Duan, H. Wang, P.A. Tanner, "Vacuum ultraviolet and visible spectra of $\text{ZnO}:\text{Eu}^{3+}$ prepared by combustion synthesis", <i>Journal of Physics: Condensed Matter</i> , 20, 345231, 2008 (4 pp.).
213	K.-L. Wong, Y.-M. Zhu, Y.-Y. Yang, G.-L. Law, H.-H. Fan, P.A. Tanner, W.-T. Wong, "Structure and photophysical properties of new trinuclear lanthanide complexes (Ln = Eu and Tb) with 1,10-phenanthroline", <i>Inorganic Chemistry Communications</i> , 12, 52-54, 2009.
214	H. Wang, C.-K. Duan, P.A. Tanner, "Visible upconversion luminescence from $\text{Y}_2\text{O}_3:\text{Eu}^{3+}, \text{Yb}^{3+}$ ", <i>Journal of Physical Chemistry C</i> , 112, 16651-16654, 2008.
215	G.-H. Jia, G.-L. Law, K.-L. Wong, P. A. Tanner, W.-T. Wong, "Synthesis, crystal structures and luminescence of organic-lanthanide complexes with nicotinate and isonicotinate ligands", <i>Inorganic Chemistry</i> , 47, 9431-9438, 2008.
216	G. Jia, C.-K. Duan, X.-L. Li, P.A. Tanner, "Luminescence and crystal field fitting of two optical isomeric complexes of europium", <i>Journal of Luminescence</i> , 129, 514-520, 2009.
217	P.A. Tanner, L. Fu, "Morphology of $\text{Y}_2\text{O}_3:\text{Eu}^{3+}$ prepared by hydrothermal synthesis", <i>Chemical Physics Letters</i> , 470, 75-79, 2009.

218	P.A. Tanner, L. Fu, B.-M. Cheng, "Spectral band shifts in the electronic spectra of rare earth sesquioxide nanomaterials doped with europium", <i>Journal of Physical Chemistry C</i> , 113, 10773-10779, 2009.
219	C.-K. Duan, P.A. Tanner, V. Babin, A. Meijerink, "Theoretical simulation and synchrotron excitation spectra of lanthanide ions in hexafluoroelpasolite lattices", <i>Journal of Physical Chemistry C</i> , 113 12580-12585, 2009.
220	P.A. Tanner, C.-K. Duan, V.N. Makhov, M. Kirm, N.M. Khaidukov, "Vacuum ultraviolet excitation spectra of lanthanide doped hexafluoroelpasolites", <i>Journal of Physics: Condensed Matter</i> , 21, 395504 (10 pp.), 2009.
221	P.A. Tanner, C.-K. Duan, V.N. Makhov, M. Kirm, N.M. Khaidukov, "Emission spectra of lanthanide ions in hexafluoroelpasolite lattices excited by synchrotron radiation", <i>Optical Materials</i> , 31, 1729-1734, 2009.
222	G.-H. Jia, P.A. Tanner, B.-M. Cheng, "Contrasting emission behaviors of YAG:V ⁵⁺ co-doped with Pr ³⁺ or Eu ³⁺ ", <i>Chemical Physics Letters</i> 474, 97-100, 2009.
223	P.A. Tanner, Z. Pan, "Luminescence properties of metal ion-doped Ba ₂ LaNbO ₆ : detection of MnO ₆ ⁸⁻ and CrO ₆ ⁹⁻ clusters". <i>Inorganic Chemistry</i> , 48, 11142-11146, 2009.
224	C.-K. Duan, P.A. Tanner, A. Meijerink, V. Babin, "Synchrotron excitation, emission and theoretical simulation of lanthanide ions in hexachloroelpasolite crystals". <i>Journal of Physics: Condensed Matter</i> , 21, 395501 (9 pp.), 2009.
225	P.A. Tanner, C.-K. Duan, B.-M. Cheng, "Excitation and emission spectra of Cs ₂ NaLnCl ₆ crystals using synchrotron radiation", <i>Spectroscopy Letters</i> 43, 431-445, 2010.
226	J. Wang, P.A. Tanner, "Upconversion for white light generation by a single compound", <i>Journal of the American Chemical Society</i> , 132, 947-949, 2010.
227	C.-K. Duan, P.A. Tanner, "Crystal-field analysis and calculation of two-photon absorption line strengths of dicesium sodium hexachlorogadolinate(III), <i>Journal of Physics: Condensed Matter</i> , 22, 125503 (6 pp.), 2010.
228	G. Jia, P.A. Tanner, C.-K. Duan, J. Dexpert-Ghys "Eu ³⁺ spectroscopy: a structural probe for yttrium orthoborate phosphors", <i>Journal of Physical Chemistry C</i> , 114, 2769-2775, 2010.
229	J. Dexpert-Ghys, R. Mauricot, B. Caillier, P. Guillot, T. Beaudette, G. Jia, P.A. Tanner, B.-M. Cheng, "VUV excitation of YBO ₃ and (Y,Gd)BO ₃ phosphors doped with Eu ³⁺ or Tb ³⁺ : comparison of efficiencies and effect of site-selectivity", <i>Journal of Physical Chemistry C</i> , 114, 6681-6689, 2010.
230	C.-K. Duan, P.A. Tanner, "What use are crystal field parameters? A Chemist's viewpoint", <i>Journal of Physical Chemistry A</i> , 114, 6055-6062, 2010.
231	K.-M. Wai, P.A. Tanner, "Variations of Aerosol Properties due to Regional Source Contributions and Impacts on Ozone Levels: a Study in a South China City", <i>Environmental Chemistry</i> , 7, 359-369, 2010.
232	H. Wen, G. Jia, C.-K. Duan, P.A. Tanner, "Understanding Eu ³⁺ emission spectra in glass", <i>Physical Chemistry Chemical Physics</i> , 12, 9933-9937, 2010.
233	G.-L. Law, K.-L. Wong, K.-K. Lau, S.-T. Lap, P.A. Tanner, F. Kuo, W.-T. Wong, "Nonlinear optical activity in dipolar organic-lanthanide complexes", <i>Journal of Materials Chemistry</i> , 20, 4074-4079, 2010.
234	P.A. Tanner, C.-K. Duan, "Luminescent lanthanide complexes: selection rules and design", <i>Coordination Chemistry Reviews</i> , 254, 3026-3029, 2010.

235	J. Wang, J.H. Hao, P.A. Tanner, "Luminescence of an insulator involving a band to band multiphoton excitation process", <i>Optics Express</i> , 19, 11753-11758, 2011.
236	W. Li, P.A. Tanner, Assignment and vibronic analysis of the $^5D_0 \rightarrow ^7F_2$ transition of Eu^{3+} in hexanitritolanthanate systems, <i>Chemical Physics Letters</i> , 494, 50-53, 2010.
237	W. Li, P.A. Tanner, "Understanding Eu^{3+} emission by using ^{15}N vibronic shifts", <i>Inorganic Chemistry</i> , 49, 6384-6386, 2010.
238	Z. Pan, G. Jia, C.-K. Duan, R.W.-Y. Wong, W.-T. Wong, P.A. Tanner, "Crystal structure, spectroscopy and crystal field analysis of substituted 1,10-phenanthroline europium complexes", <i>European Journal of Inorganic Chemistry</i> , 637-646, 2011.
239	J. Wang, J.H. Hao, P.A. Tanner, "Luminous and tunable white-light upconversion for YAG ($\text{Yb}_3\text{Al}_5\text{O}_{12}$) and $(\text{Yb}, \text{Y})_2\text{O}_3$ nanopowders," <i>Optics Letters</i> , 35, 3922-3924, 2010.
240	G. Jia, B.-M. Cheng, C.-K. Duan, P.A. Tanner, "Low temperature photoluminescence of $\text{Cs}_2\text{NaY}_{1-x}\text{Er}_x\text{Cl}_6$ excited by synchrotron radiation," <i>Chemical Physics Letters</i> 515, 235-240, 2011.
241	P.A. Tanner, M.D. Faucher, X. Zhou, "Electronic Spectra and Crystal Field Analysis of Energy Levels of Ho^{3+} in HoF_6^{3-} ," <i>Journal of Physical Chemistry A</i> , 115, 2557-2567, 2011.
242	C.-K. Duan, P.A. Tanner, "Theoretical study of the crystal-field energy levels and two-photon absorption intensities of Tb^{3+} in cubic host lattices," <i>Journal of Physical Chemistry A</i> , 115, 1922-1932, 2011.
243	C.-K. Duan, C.-C. Ko, G. Jia, X. Chen, P.A. Tanner, " $^5D_3 - ^5D_4$ cross-relaxation of Tb^{3+} in a cubic host lattice", <i>Chemical Physics Letters</i> , 506, 179-182, 2011.
244	C.-K. Duan, P.A. Tanner, A. Meijerink, V. Makhov, " $4f-5d$ transitions of Tb^{3+} in Cs_2NaYF_6 : the effect of distortion of the excited state configuration", <i>Journal of Physical Chemistry A</i> , 115, 9188-9191, 2011.
245	H. Wen, C.-K. Duan, G. Jia, M. Brik, P.A. Tanner, "Glass composition and excitation wavelength dependence of the luminescence of Eu^{3+} doped lead borate glass", <i>Journal of Applied Physics</i> , 110, 033536 (8 pp.), 2011.
246	H. Wen, P.A. Tanner, " $4f^8 - 4f^8$ ultraviolet absorption spectrum of $\text{Cs}_2\text{NaTbCl}_6$ ", <i>Chemical Physics Letters</i> , 508, 49-53, 2011.
247	H. Wen, P.A. Tanner, "Energy transfer and luminescence studies of Pr^{3+} , Yb^{3+} co-doped lead borate glass", <i>Optical Materials</i> , 33, 1602-1606, 2011.
248	C.-K. Duan, P.A. Tanner, V. Makhov, N.M. Khaidukov, "Emission and excitation spectra of Ce^{3+} and Pr^{3+} ions in hexafluoroelpasolite lattices", <i>Journal of Physical Chemistry A</i> , 115, 8870-8876, 2011.
249	W. Li, L. Ning, M. D. Faucher, P.A. Tanner, "Experimental and theoretical studies of the vibrational and electronic spectra of a lanthanide ion at a site of T_h symmetry: Pr^{3+} in $\text{Cs}_2\text{NaPr}(\text{NO}_2)_6$ ", <i>Inorganic Chemistry</i> , 50, 9004-9013, 2011.
250	C.-K. Duan, H. Wen, P.A. Tanner, "An experimental study of the local-field effect on the spontaneous radiative emission rate", <i>Physical Review B</i> , 83, 245123 (5 pp.), 2011.
251	P.A. Tanner, C.-K. Duan, G. Jia, B.-M. Cheng, "Luminescence of the elpasolite series $\text{M}^I_2\text{M}^{II}\text{MCl}_6$ ($\text{M}^I = \text{Cs}, \text{Rb}$; $\text{M}^{II} = \text{Li}, \text{Na}$; $\text{M} = \text{Lu}, \text{Y}, \text{Sc}, \text{In}$) doped with europium under synchrotron radiation excitation", <i>Journal of Solid State Chemistry</i> , 187, 105-108, 2012.
252	P.A. Tanner, G. Jia, B.-M. Cheng, M.G. Brik, "Analysis of spectra of neat and lanthanide ion-doped KPb_2Cl_5 excited by synchrotron radiation", <i>Physica Status Solidi b</i> , 249, 581-587, 2012.

253	P. A. Tanner, W. Li, L. Ning, "Electronic spectra and crystal field analysis of europium in hexanitritolanthanate systems", <i>Inorganic Chemistry</i> , 51, 2997-3006, 2012.
254	L. Luo, F. Y. Huang, G. J. Guo, P. A. Tanner, J. Chen, Y. T. Tao, Jun Zhou, L. Y. Yuan, S. Y. Chen, Y. L. Chueh, H. H. Fan, K. F. Li, K. W. Cheah, "Efficient doping and energy transfer from ZnO to Eu ³⁺ ions in Eu ³⁺ -doped ZnO nanocrystals", <i>Journal of Nanoscience and Nanotechnology</i> , 12, 2417-2423, 2012.
255	P. A. Tanner, W. Li, L. Ning, "Electronic spectra and crystal field analysis of Tb ³⁺ in Cs ₂ NaTb(NO ₂) ₆ : Tb ³⁺ situated at a site of T _h symmetry", <i>Journal of Physical Chemistry C</i> 116, 12764-12771, 2012.
256	W. Li, L. Ning, P.A. Tanner, Double perovskite structure: a vibrational and luminescence investigation providing a perspective on crystal field strength, <i>Journal of Physical Chemistry A</i> , 116, 7337-7344, 2012.
257	Y.-W. Yip, H. Wen, W.-T. Wong, K.-L. Wong, P. A. Tanner, Increased antenna effect of lanthanide complexes by control of number of terdentate <i>N</i> -donor pyridine ligands, <i>Inorganic Chemistry</i> , 51, 7013-7015, 2012.
258	Y.Y. Yeung, P.A. Tanner, "New analyses of energy level datasets for LaCl ₃ :Ln ³⁺ (Ln = Pr, Nd, Er)", <i>Journal of Alloys and Compounds</i> , 575, 54-60, 2013.
259	H. Lin, G. Zhang, P.A. Tanner, H. Liang, "VUV-vis luminescent properties of BaCaBO ₃ F doped with Ce ³⁺ and Tb ³⁺ ", <i>Journal of Physical Chemistry C</i> , 117 (24), 12769-12777, 2013.
260	M. Peng, X. Yin, P. A. Tanner, C. Liang, P. Li, Q. Zhang, J. Qiu, "Orderly layered tetravalent manganese doped strontium aluminate Sr ₄ Al ₁₄ O ₂₅ :Mn ⁴⁺ : an efficient red phosphor for warm white light emitting diodes", <i>Journal of the American Ceramic Society</i> , 96, 2870-2876, 2013.
261	P.A. Tanner, Y.Y. Yeung, L. Ning, "What factors affect the ⁵ D ₀ energy of Eu ³⁺ ? An investigation of nephelauxetic effects, <i>Journal of Physical Chemistry A</i> , 117, 2771-2781, 2013.
262	P.A. Tanner, L. Ning, "Electronegativity, Charge Transfer, Crystal Field Strength and the Point Charge Model Revisited", <i>Journal of Physical Chemistry A</i> , 117, 1503-1507, 2013.
263	P.A. Tanner, "Some misconceptions concerning the electronic spectra of tri-positive europium and cerium", <i>Chemical Society Reviews</i> , 42 (12), 5090-5101, 2013.
264	L. Zhou, H.-B. Liang, P. A. Tanner, S. Zhang, D. Hou, C. Liu, Y. Tao, Y. Huang, L. Li, "Luminescence, Cathodoluminescence and Ce ³⁺ → Eu ²⁺ Energy Transfer and Emission Enhancement in the Sr ₅ (PO ₄) ₃ Cl:Ce ³⁺ ,Eu ²⁺ Phosphor", <i>Journal of Materials Chemistry C</i> 1, 7155-7165, 2013.
265	M.G. Brik, V. Krasnenko, P.A. Tanner, "Density functional studies of cubic elpasolites Cs ₂ NaYX ₆ (X = F, Cl, Br) at ambient and elevated hydrostatic pressure". <i>Journal of Luminescence</i> , 152, 49-53, 2014.
266	K.-M. Wai, P.A. Tanner, "Recent springtime regional CO variability in southern China and the adjacent ocean: anthropogenic and biomass burning contributions," <i>Journal of Aerosol and Air Quality Research</i> , 14, 21-32, 2014.
267	J. Wang, Y. Mei, P.A. Tanner, "Luminescence properties, centroid shift and energy transfer of Ce ³⁺ in aqueous chloride solutions", <i>Journal of Luminescence</i> , 146, 440-444, 2014.
268	Y.Y. Yeung, P.A. Tanner, "Parametrization of free ion levels of four isoelectronic 4f ² systems: insights into configuration interaction parameters," <i>Chemical Physics Letters</i> , 590, 46-51, 2013.
269	P.A. Tanner, Y.Y. Yeung, "Nephelauxetic effects in the electronic spectra of Pr ³⁺ ", <i>Journal of Physical Chemistry A</i> 117 (41), 10726-10735, 2013.
270	X. Zhou, X. Zhao, C.S.K. Mak, L. Li, Q. Li, P.A. Tanner, "Yellow to violet upconversion processes of Nd ³⁺ in neat Cs ₂ NaNdCl ₆ ", <i>Optical Materials</i> 37, 34-37, 2014.
271	P.A. Tanner, Y.-Y. Yeung, L. Ning, "Some aspects of configuration interaction of the 4f ^N configurations of tripositive lanthanide ions," <i>Journal of Physical Chemistry A</i> 118 (38), 8745-8752, 2014.
272	H. Wen, P.A. Tanner, "Optical properties of 3d transition metal ion-doped sodium borosilicate glass", <i>Journal of Alloys and Compounds</i> 625, 328-335, 2015.
273	X. Zhou, P.A. Tanner, "Relation between ligand design and transition energy for the praseodymium ion in crystals".

	Journal of Physical Chemistry A 119, 79-87, 2015.
274	X. Zhou, W.-T. Wong, S.C.K. Hau, P.A. Tanner, "Structural variations of praseodymium(III) benzoate derivative complexes with dimethylformamide, Polyhedron 88, 138-148, 2015.
275	W.-L. Chan, Z. Liu, S. Lu, P.A. Tanner, K.-L. Wong, The reported anomalous emission intensity of the $^5D_0 \rightarrow ^7F_4$ transition of Eu^{3+} in a molybdate double perovskite, Journal of Materials Chemistry C 3, 960-963, 2015.
276	J. Wang, J.H. Hao, P.A. Tanner, Persistent luminescence upconversion for Er_2O_3 under 975 nm excitation in vacuum. Journal of Luminescence, 164, 116-122, 2015.
277	M. Peng, X. Yin, P.A. Tanner, M.G. Brik, P. Li, The site occupancy preference, the enhancement mechanism and the thermal resistance of Mn^{4+} red luminescence in $\text{Sr}_4\text{Al}_{14}\text{O}_{25}:\text{Mn}^{4+}$ for warm WLEDs, Chemistry of Materials, 27, 2938-2945, 2015.
278	Y.Y. Yeung, P.A. Tanner, Trends in Atomic Parameters for Crystals and Free Ions across the Lanthanide Series: the Case of $\text{LaCl}_3:\text{Ln}^{3+}$, Journal of Physical Chemistry A 119, 6309-6316, 2015.
279	L. Zhou, W. Zhou, F. Pan, R. Shi, L. Huang, H. Liang, P.A. Tanner, X. Du, Y. Huang, Y. Tao, L. Zheng, Spectral Properties and Energy Transfer of a Potential Solar Energy Converter, Chemistry of Materials 28, 2834-2843, 2016.
280	H. Wen, P. A. Tanner, B.-M. Cheng, Optical properties of $3d^N$ transition metal ion-doped lead borate glasses, Materials Research Bulletin, 83, 400-407, 2016.
281	L. Ning, X. Ji, Y. Dong, W. Jin, Y. Huang, Z. Pan, P. A. Tanner, First-Principles Study of Ce-doped $\text{Y}_3\text{Al}_5\text{O}_{12}$ with Si-N Incorporation: Electronic Structures and Optical Properties, Journal of Materials Chemistry C, 4, 5214-5221, 2016.
282	G. S. Maciel, P. A. Tanner, R. B. Guimarães, N. Rakov, Transformation of LaOF into LaF_3 owing to Al^{3+} in luminescent Eu^{3+} -doped crystalline powders, CrystEngComm 18, 5885-5889, 2016.
283	L. Zhou, P. A. Tanner, L. Ning, W. Zhou, H. Liang, L. Zheng, Spectral Properties and Energy Transfer Between $\text{Ce}^{3+} \rightarrow \text{Yb}^{3+}$ in the $\text{Ca}_3\text{Sc}_2\text{Si}_3\text{O}_{12}$ Host: Is It an Electron Transfer Mechanism? Journal of Physical Chemistry A 120, 5539-5548, 2016.
284	J. Li, J. Yan, D. Wen, W. U. Khan, J. Shi, M. Wu, Q. Su, P. A. Tanner, Advanced Red Phosphors for White Light-emitting Diodes, Journal of Materials Chemistry C, 4, 8611-8622, 2016.
285	H. Liu, B. Feng, L. Luo, C. Han, P. A. Tanner, Near infrared photostimulated persistent luminescence and information storage of $\text{SrAl}_2\text{O}_4:\text{Eu}^{2+}, \text{Dy}^{3+}$ phosphor, Optical Materials Express, 6, 3375-3385, 2016.
286	H. Wen, B.-M. Cheng, P. A. Tanner, Optical properties of selected 4d and 5d transition metal ion-doped glasses, RSC Advances, 7, 26411-26419, 2017.
287	K.-M. Wai, E. Y. Y. Ng, C. M. S. Wong, T. Z. Tan, T.-H. Lin, W.-H. Lien, P. A. Tanner, C. S. H. Wang, K. K. L. Lau, N. M. H. He, J. Kim, Aerosol pollution and its potential impacts on outdoor human thermal sensation: East Asian perspectives. Environmental Research 158, 753-758, 2017.
288	L. Zhou, P. A. Tanner, W. Zhou, Y. Ai Y, L. Ning, M. M. Wu, H. Liang, Unique spectral overlap and resonant

	energy transfer between europium(II) and ytterbium(III) cations: no quantum cutting, <i>Angewandte Chemie International Edition</i> , 56, 10357-10361, 2017.
289	G. Bao, S. Zha, Z. Liu, Y. H. Fung, C. F. Chan, H. Li, P. H. Chu, D. Jin, P. A. Tanner, K. L. Wong, Reversible and sensitive Hg ²⁺ detection by a cell-permeable ytterbium complex. <i>Inorganic Chemistry</i> , 57, 120-128, 2018.
290	Y. Luo, Z. Liu, H.-C. Kit, Y.-Y. Yeung, K.-L. Wong, K.-K. Shiu, X. Chen, H. Zhu, G. Bao, P. A. Tanner, Electronic spectra of Cs ₂ NaYb(NO ₂) ₆ : is there quantum cutting? <i>Journal of Physical Chemistry A</i> , 2018, DOI: 10.1021/acs.jpca.8b01915

Book Chapter

1. B. Yan, H. Zhang and P.A. Tanner, "Sol-gel preparation and luminescence properties of nano-structured hybrid materials incorporated with europium complexes", *Physics and Chemistry of Nanostructured Materials*, Eds. S. Yang and P. Sheng, Taylor and Francis, London, 2000. Ch. 26, pp. 207-210. ISBN-0-7484-0873-8.
2. H. Song and P.A. Tanner, "Luminescence properties of rare earth doped nanophosphors", in *Doped Nanomaterials and Nanodevices*, Ed. W. Chen, American Scientific Publishers, California, USA. 2008. ISBN: 1-58883-110-8
3. P.A. Tanner, "Lanthanide luminescence in solids", *Springer Series on Fluorescence Vol 7: Lanthanide Luminescence: Photophysical, Analytical and Biological Aspects*. Eds. P. Hänninen and H. Härmä, 2011. Springer-Verlag Berlin Heidelberg. pp. 183-233. ISBN 978-3- 642-21022-8.

Editorials

1. P.A. Tanner, "Application of spectroscopic methods to environmental problems", *Spectroscopy Letters* 38, 211-212, 2005.
2. P.A. Tanner, "Spectroscopy of lanthanide materials", *Spectroscopy Letters*, 40, 195-196, 2007.
3. P.A. Tanner, "Spectroscopy of lanthanide materials, II", *Spectroscopy Letters*, 43, 317-318, 2010.