

# Yau-yuen Yeung

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4121841/publications.pdf>

Version: 2024-02-01

66  
papers

1,586  
citations

304743

22  
h-index

330143

37  
g-index

66  
all docs

66  
docs citations

66  
times ranked

776  
citing authors



#	ARTICLE	IF	CITATIONS
19	Theoretical investigation of the electronic structure and luminescence properties for Nd <sub>x</sub> Y <sub>1-x</sub> Al <sub>3</sub> (BO <sub>3</sub> ) <sub>4</sub> nonlinear laser crystal. <i>Journal of Materials Chemistry C</i> , 2017, 5, 7174-7181.	5.5	30
20	Geometric, electronic and optical properties of undoped and cerium-doped La <sub>5</sub> (Si <sub>2</sub> B <sub>1</sub> ) <sub>3</sub> (O <sub>13</sub> N) solid solutions: A theoretical investigation. <i>Journal of Luminescence</i> , 2017, 192, 1026-1032.	3.1	2
21	Structural Evolutions and Crystal Field Characterizations of Tm-Doped YAlO <sub>3</sub> : New Theoretical Insights. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 30422-30429.	8.0	33
22	Effects of vacancies on valence stabilities of europium ions in $\hat{I}^2$ -Ca <sub>2</sub> SiO <sub>4</sub> : Eu phosphors. <i>Journal of Luminescence</i> , 2016, 178, 121-127.	3.1	15
23	Determination of the microstructure, energy levels and magnetic dipole transition mechanism for Tm <sup>3+</sup> -doped yttrium aluminum borate. <i>Journal of Materials Chemistry C</i> , 2016, 4, 1988-1995.	5.5	17
24	Chinese students' science-related experiences: Comparison of the ROSE study in Xinjiang and Shanghai. <i>Research in Science and Technological Education</i> , 2015, 33, 218-236.	2.5	1
25	Technology-Enhanced Physics Programme for Community-Based Science Learning: Innovative Design and Programme Evaluation in a Theme Park. <i>Journal of Science Education and Technology</i> , 2015, 24, 580-594.	3.9	13
26	Trends in Atomic Parameters for Crystals and Free Ions across the Lanthanide Series: The Case of LaCl <sub>3</sub> :Ln <sup>3+</sup> . <i>Journal of Physical Chemistry A</i> , 2015, 119, 6309-6316.	2.5	15
27	Integrating Effective Pedagogies in Science Education with a Design of Alternative Experiments on Electromagnetics. <i>Eurasia Journal of Mathematics, Science and Technology Education</i> , 2014, 10, .	1.3	2
28	Semi-empirical calculations of radiative rates for parity-forbidden transitions within the 4f <sup>2</sup> configuration of Ba-like ions La <sup>+</sup> , Ce <sup>2+</sup> , Pr <sup>3+</sup> and Nd <sup>4+</sup> and 4f <sup>12</sup> configuration of Dy-like Yb <sup>4+</sup> . <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014, 47, 145002.	1.5	5
29	Reduced matrix elements of spin-spin interactions for the atomic -electron configurations. <i>Atomic Data and Nuclear Data Tables</i> , 2014, 100, 536-576.	2.4	20
30	Some Aspects of Configuration Interaction of the 4f <sup>N</sup> Configurations of Tripositive Lanthanide Ions. <i>Journal of Physical Chemistry A</i> , 2014, 118, 8745-8752.	2.5	15
31	Modeling Spectroscopic Properties of Ni <sup>2+</sup> Ions in the Haldane Gap System Y <sub>2</sub> BaNiO <sub>5</sub> . <i>Applied Magnetic Resonance</i> , 2013, 44, 899-915.	1.2	14
32	Study of the Defect Structure and Crystal-Field Parameters of $\hat{I}^{\pm}$ -Al <sub>2</sub> O <sub>3</sub> :Yb <sup>3+</sup> . <i>Applied Magnetic Resonance</i> , 2013, 44, 917-925.	1.2	16
33	Nephelauxetic Effects in the Electronic Spectra of Pr <sup>3+</sup> . <i>Journal of Physical Chemistry A</i> , 2013, 117, 10726-10735.	2.5	41
34	New analyses of energy level datasets for LaCl <sub>3</sub> :Ln <sup>3+</sup> (Ln=Pr, Nd, Er). <i>Journal of Alloys and Compounds</i> , 2013, 575, 54-60.	5.5	27
35	Parametrization of free ion levels of four isoelectronic 4f <sup>2</sup> systems: Insights into configuration interaction parameters. <i>Chemical Physics Letters</i> , 2013, 590, 46-51.	2.6	15
36	What Factors Affect the <sup>5</sup> D <sub>0</sub> Energy of Eu <sup>3+</sup> ? An Investigation of Nephelauxetic Effects. <i>Journal of Physical Chemistry A</i> , 2013, 117, 2771-2781.	2.5	76

#	ARTICLE	IF	CITATIONS
37	Modeling of Spin Hamiltonian Parameters for Vanadyl-Doped $\text{K}_2\text{SO}_4\cdot\text{Na}_2\text{SO}_4\cdot\text{ZnSO}_4$ Glass. Applied Magnetic Resonance, 2011, 40, 441-448.	1.2	3
38	Identifying professional development environment for mentor teachers at a Learning Centre. Teacher Development, 2010, 14, 351-363.	0.7	5
39	Ninth Graders' Learning Interests, Life Experiences and Attitudes Towards Science & Technology. Journal of Science Education and Technology, 2009, 18, 447-457.	3.9	28
40	An experience of teaching for learning by observation: Remote-controlled experiments on electrical circuits. Computers and Education, 2009, 52, 702-717.	8.3	33
41	Semi-ab initio calculations of superposition model and crystal field parameters for $\text{Co}^{2+}$ ions using the exchange charge model. Journal of Physics and Chemistry of Solids, 2008, 69, 2401-2410.	4.0	49
42	Ground and excited state absorption of $\text{Ni}^{2+}$ ions in $\text{MgAl}_2\text{O}_4$ : Crystal field analysis. Journal of Alloys and Compounds, 2007, 432, 61-68.	5.5	48
43	Crystal field analysis of the energy level structure of $\text{Cs}_2\text{NaAlF}_6:\text{Cr}^{3+}$ . Journal of Physics Condensed Matter, 2006, 18, 5221-5234.	1.8	42
44	A social network analysis of research collaboration in physics education. American Journal of Physics, 2005, 73, 145-150.	0.7	17
45	Macroscopic study of the social networks formed in web-based discussion forums. , 2005, , .		9
46	Theoretical investigations of the microscopic spin Hamiltonian parameters including the spin-spin and spin-other-orbit interactions for $\text{Ni}^{2+}(3d^8)$ ions in trigonal crystal fields. Journal of Physics Condensed Matter, 2004, 16, 3481-3494.	1.8	60
47	Microscopic spin-Hamiltonian parameters and crystal field energy levels for the low $C_3$ symmetry $\text{Ni}^{2+}$ centre in $\text{LiNbO}_3$ crystals. Physica B: Condensed Matter, 2004, 348, 151-159.	2.7	71
48	Crystal field and microscopic spin Hamiltonians approach including spin-spin and spin-other-orbit interactions for $d^2$ and $d^8$ ions at low symmetry $C_3$ symmetry sites: $V^{3+}$ in $\text{Al}_2\text{O}_3$ . Journal of Physics and Chemistry of Solids, 2003, 64, 1419-1428.	4.0	166
49	Spin Hamiltonian and structural disorder analysis for two high temperature $\text{Cr}^{3+}$ defect centers in $\text{Li}^{\pm}\text{-LiIO}_3$ crystals—low symmetry effects. Journal of Physics and Chemistry of Solids, 2003, 64, 887-896.	4.0	24
50	Microscopic spin Hamiltonian approaches for $3d^8$ and $3d^2$ 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
51	Correlation of spectroscopic properties and substitutional sites of $\text{Cr}^{3+}$ in aluminosilicates: I. Kyanite. Physics and Chemistry of Minerals, 1994, 21, 526.	0.8	19
52	Correlation of spectroscopic properties and substitutional sites of $\text{Cr}^{3+}$ in aluminosilicates: II. Andalusite and sillimanite. Physics and Chemistry of Minerals, 1994, 21, 532.	0.8	18
53	Model calculation of the spectroscopic properties for $\text{Cr}^{3+}$ in kyanite. Journal of Luminescence, 1994, 60-61, 108-111.	3.1	16
54	Crystal Field Energy Levels and State Vectors for the $3d^N$ Ions at Orthorhombic or Higher Symmetry Sites. Journal of Computational Physics, 1993, 109, 150-152.	3.8	35

#	ARTICLE	IF	CITATIONS
55	Ground state energy and effective mass of an interface polaron under strong electron-phonon interactions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1993, 183, 418-424.	2.1	1
56	Calculations of vacancy induced properties in palladium using the decoupling transformation approach. <i>Solid State Communications</i> , 1993, 85, 569-572.	1.9	0
57	Crystal field levels and fine structure of the ground orbital state for high spin Fe <sup>2+</sup> and Fe <sup>4+</sup> ions in YBa <sub>2</sub> (Cu <sub>1-x</sub> Fe <sub>x</sub> ) <sub>3</sub> O <sub>7-δ</sub> . <i>Journal of Physics and Chemistry of Solids</i> , 1993, 54, 733-744.	4.0	11
58	Decoupling transformation calculations of dynamical and vacancy-induced properties in FCC nickel metal. <i>Journal of Physics and Chemistry of Solids</i> , 1993, 54, 553-563.	4.0	2
59	Crystal field levels and zero-field splitting parameters of Cr <sup>2+</sup> in the mixed system Rb <sub>2</sub> Mn <sub>x</sub> Cr <sub>1-x</sub> Cl <sub>4</sub> . <i>Physica B: Condensed Matter</i> , 1993, 191, 323-333.	2.7	22
60	Spin parameters for the rare earth ion Gd <sup>3+</sup> in some fluorite complexes. <i>Journal of Alloys and Compounds</i> , 1993, 193, 213-215.	5.5	4
61	Effects of the parabolic potential and confined phonons on the polaron in a quantum wire. <i>Physical Review B</i> , 1992, 46, 4630-4637.	3.2	26
62	The cyclotron mass and self-trapping energy of an interface polaron. <i>Solid State Communications</i> , 1992, 81, 325-328.	1.9	5
63	Ligand field analysis of the 3dN ions at orthorhombic or higher symmetry sites. <i>Computers &amp; Chemistry</i> , 1992, 16, 207-216.	1.2	130
64	Electron-confined phonon interaction in a quantum wire with parabolic potential. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1992, 166, 377-382.	2.1	11
65	Crystal-field and superposition-model analyses of Pr <sup>3+</sup> -LaF <sub>3</sub> in C <sub>2</sub> symmetry. <i>Journal of the Less Common Metals</i> , 1989, 148, 213-217.	0.8	17
66	Angular overlap and superposition models of the orbitals-lattice interaction. <i>Chemical Physics Letters</i> , 1985, 122, 415-417.	2.6	4