

# Zhenwen Dai

## List of Publications by Year in descending order

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48  
papers

465  
citations

840776

11  
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752698

20  
g-index

48  
all docs

48  
docs citations

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times ranked

321  
citing authors

#	ARTICLE	IF	CITATIONS
1	Upconversion luminescence and kinetics in Er <sup>3+</sup> :YAlO <sub>3</sub> under 652.2nm excitation. Journal of Luminescence, 2007, 124, 207-212.	3.1	81
2	Different processes responsible for blue pumped, ultraviolet and violet luminescence in high-concentrated Er <sup>3+</sup> :YAG and low-concentrated Er <sup>3+</sup> :YAP crystals. Physica B: Condensed Matter, 2008, 403, 174-177.	2.7	54
3	Radiative lifetime measurements in Er II by time-resolved laser spectroscopy. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 1771-1781.	1.5	24
4	Energy transfer and frequency upconversion in Pr <sup>3+</sup> -doped ZBLAN glass. Journal of Non-Crystalline Solids, 2006, 352, 5469-5474.	3.1	22
5	Decay properties of Er <sup>3+</sup> ions in Er <sup>3+</sup> :YAG and Er <sup>3+</sup> :YAlO <sub>3</sub> . Physica B: Condensed Matter, 2002, 324, 43-48.	2.7	17
6	Time-resolved laser-induced fluorescence measurements of Rydberg states in Lu I and comparison with theory. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 479-487.	1.5	17
7	Direct and Landé factor measurements of $^5\text{P}^{\circ}$ and $^7\text{P}^{\circ}$ levels in Lu I by time-resolved laser spectroscopy. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 479-487.	2.5	17
8	Radiative lifetime measurements of some Tm I and Tm II levels by time-resolved laser spectroscopy. Monthly Notices of the Royal Astronomical Society, 2016, 457, 1393-1398.	4.4	17
9	Solvothermal synthesis and luminescence properties of BaCeF <sub>5</sub> , and BaCeF <sub>5</sub> :Tb <sup>3+</sup> nanocrystals. RSC Advances, 2012, 2, 4697.	3.6	13
10	Experimental branching fractions, transition probabilities, and oscillator strengths in Sn I. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 1486.	2.1	12
11	TR-LIF LIFETIME MEASUREMENTS AND HFR+CPOL CALCULATIONS OF RADIATIVE PARAMETERS IN VANADIUM ATOM (V I). Astrophysical Journal, Supplement Series, 2014, 211, 31.	7.7	12
12	Solvothermal synthesis of CeF <sub>3</sub> : Tm <sup>3+</sup> , Yb <sup>3+</sup> microcrystals with visible upconversion luminescence by 980nm excitation. Journal of Alloys and Compounds, 2013, 549, 362-365.	5.5	11
13	Radiative lifetime measurements for some levels in Mn I and Ni I by time-resolved laser spectroscopy. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 163, 34-38.	2.3	11
14	Radiative lifetime measurements on odd-parity levels of La I by time-resolved laser spectroscopy. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 543.	2.1	10
15	Investigation of photoluminescence properties of Eu <sup>3+</sup> -doped GdAlO <sub>3</sub> and LaAlO <sub>3</sub> by site-selective laser spectroscopy. Materials Letters, 2012, 74, 140-142.	2.6	10
16	Synthesis and investigation of luminescence properties of Eu <sup>3+</sup> -doped cubic perovskite Ba <sub>3</sub> Y <sub>2</sub> WO <sub>9</sub> . Optical Materials, 2013, 35, 1577-1581.	3.6	10
17	Radiative lifetime measurements of some La <sup>II</sup> and La <sup>III</sup> levels by time-resolved laser spectroscopy. Monthly Notices of the Royal Astronomical Society, 2014, 442, 138-141.	4.4	10
18	Radiative-lifetime measurements and calculations of odd-parity highly excited levels in Ba I. Physical Review A, 2010, 82, .	2.5	9

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19	Radiative lifetimes of highly excited even-parity levels in Gd <sup>II</sup> and Gd <sup>III</sup> . Monthly Notices of the Royal Astronomical Society, 2011, 418, 998-1003.	4.4	9
20	Sensitivity of upconversion mechanisms to excitation laser wavelength in Er <sup>3+</sup> -doped YAG. Journal of Luminescence, 2010, 130, 872-876.	3.1	8
21	Radiative lifetimes, branching fractions, transition probabilities and oscillator strengths of some levels for neutral yttrium. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 085001.	1.5	8
22	Radiative lifetimes, branching fractions, and oscillator strengths of some levels in Be I. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 212, 112-119.	2.3	8
23	Hyperfine structure measurements of Co I and Co II with Fourier transform spectroscopy. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 266, 107590.	2.3	8
24	A self-luminous CaEuAl <sub>3</sub> O <sub>7</sub> phosphor: Structural and optical characteristics. Ceramics International, 2014, 40, 10573-10576.	4.8	7
25	Experimental Radiative Lifetimes, Branching Fractions, and Oscillator Strengths of Some Levels in Er I and Er II. Astrophysical Journal, Supplement Series, 2019, 240, 25.	7.7	7
26	Kinetics of Fluorescence Decay in Er <sup>3+</sup> : YAG under 408.6 nm Excitation. Journal of Rare Earths, 2006, 24, 519-523.	4.8	6
27	Dynamics of excited state relaxation and frequency upconversion in Tm <sup>3+</sup> and Tm <sup>3+</sup> /Tb <sup>3+</sup> doped ZBLAN glass. Journal of Non-Crystalline Solids, 2008, 354, 1796-1800.	3.1	6
28	Radiative lifetime measurements of odd-parity moderately excited levels belonging to J=0, 1, 2, 3 series in Sm I. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 2255.	2.1	6
29	Experimental branching fractions, transition probabilities and oscillator strengths of some levels in Ba I. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 199, 89-92.	2.3	6
30	Measurements of radiative lifetimes, branching fractions, transition probabilities, and oscillator strengths for Eu II and Eu III levels. Monthly Notices of the Royal Astronomical Society, 2019, 485, 4485-4491.	4.4	6
31	Experimental radiative lifetimes, branching fractions, and oscillator strengths of odd-parity levels in Mo I. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 489.	2.1	5
32	Experimental radiative lifetimes, branching fractions, and oscillator strengths of some levels in Y I. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 2244.	2.1	3
33	Quantitative analysis of different upconversion-mechanism contributions for population of certain level in Er <sup>3+</sup> -doped YAG. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 2365.	2.1	2
34	Sensitivities of competitions between different upconversion mechanisms to exciting wavelength in Er <sup>3+</sup> :YAG with different concentrations. Optics Communications, 2011, 284, 3593-3596.	2.1	2
35	Experimental and Theoretical Radiative Lifetimes, Branching Fractions, Transition Probabilities, and Oscillator Strengths of Some Highly Excited Odd-parity Levels in Ir I. Astrophysical Journal, Supplement Series, 2018, 238, 3.	7.7	2
36	Radiative parameters of high-lying levels in neutral rhodium. Monthly Notices of the Royal Astronomical Society, 2021, 503, 5085-5090.	4.4	2

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37	Studies on hyperfine structure of Sc I and Sc II using Fourier-transform spectroscopy. European Physical Journal D, 2021, 75, 1.	1.3	2
38	Experimental radiative lifetimes, branching fractions, and oscillator strengths of some levels in Co ii. Monthly Notices of the Royal Astronomical Society, 2018, 475, 1881-1886.	4.4	1
39	Experimental and Theoretical Radiative Lifetimes, Branching Fractions, Transition Probabilities, and Oscillator Strengths of Nb I Levels. Astrophysical Journal, Supplement Series, 2019, 242, 23.	7.7	1
40	Experimental and Theoretical Radiative Parameters of Highly Excited Levels in Re ii. Astrophysical Journal, Supplement Series, 2022, 258, 35.	7.7	1
41	Hyperfine structure constants for neutral and singly ionized vanadium by Fourier transform spectroscopy data. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 280, 108085.	2.3	1
42	Measurements and Calculations of Radiative Parameters for Odd-parity Levels in Nb ii. Astrophysical Journal, Supplement Series, 2022, 259, 44.	7.7	1
43	Lifetime measurements of odd-parity high-excitation levels of Sm ii by time-resolved laser spectroscopy. Monthly Notices of the Royal Astronomical Society, 2011, , no-no.	4.4	0
44	Solvothermal synthesis of CeF <sub>3</sub> : Er <sup>3+</sup> , Yb <sup>3+</sup> nanoplates with visible upconversion luminescence by 980nm excitation. Materials Research Bulletin, 2013, 48, 884-888.	5.2	0
45	Hyperfine structure and lifetime measurements in the 4s2nd 2D <sub>3/2</sub> Rydberg sequence of Ga I by time-resolved laser spectroscopy. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 174, 22-27.	2.3	0
46	Radiative lifetime measurements of Sc I levels by time-resolved laser spectroscopy. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 229, 1-3.	2.3	0
47	Experimental radiative lifetimes, branching fractions, and oscillator strengths of Ta I levels. Physica Scripta, 2019, 94, 075405.	2.5	0
48	Radiative lifetimes, branching fractions, and oscillator strengths for highly excited levels in singly ionized tantalum (Ta II). Monthly Notices of the Royal Astronomical Society, 2022, 510, 4808-4818.	4.4	0