Shinta Watanabe

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38 279 10 14 g-index

42 325 2.8 3.03 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
38	Calculations of Complete 4fnand 4fn-15d1Energy Level Schemes of Free Trivalent Rare-Earth Ions. Japanese Journal of Applied Physics, 2004 , 43, L611-L613	1.4	26
37	Optical Transitions near the Fundamental Absorption Edge and Electronic Structures of YAl3(BO3)4:Gd3+. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 146-151	1.4	22
36	First-principles relativistic calculation for 4fBd transition energy of Ce3+ in various fluoride hosts. Journal of Solid State Chemistry, 2006 , 179, 2438-2442	3.3	20
35	First-principles and experimental analysis of fn f n f ld1 absorption spectra and multiplet energy levels of Pr3+, Nd3+, and U3+ in LiYF4. <i>Physical Review B</i> , 2010 , 81,	3.3	16
34	[H(x)TeV9O28]((5-x)-) (x=1 and 2): vanadotellurates with decavanadate structure. <i>Inorganic Chemistry</i> , 2011 , 50, 6183-8	5.1	16
33	First-principles calculation of ground and excited-state absorption spectra of ruby and alexandrite considering lattice relaxation. <i>Physical Review B</i> , 2009 , 79,	3.3	16
32	Relativistic Calculations of Complete 4fnEnergy Level Schemes of Free Trivalent Rare-Earth Ions. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 7488-7490	1.4	16
31	Chapter 231 First-principles calculations of transition spectra. <i>Fundamental Theories of Physics</i> , 2007 , 1-59	0.8	12
30	Relativistic many-electron calculations of Cr3+ L2,3-edge x ray absorption near-edge structures for Cr3+:\text{Hal2O3} and \text{\text{\text{Cr2O3}} and magnetic circular dichroism of Cr3+L2,3-edge x ray absorption near-edge structures for Cr3+:\text{\text{\text{Al2O3}}. Journal of Applied Physics, 2011, 110, 123524}	2.5	11
29	Experimental and Theoretical Investigations for Excitation Properties of Ba[sub 1-x]Eu[sub x]MgAl[sub 10]O[sub 17]. <i>Journal of the Electrochemical Society</i> , 2007 , 154, J196	3.9	11
28	Experimental and First-Principles Analysis of 4fBd Absorption Spectrum for Ce3+ in LiYF4 Considering Lattice Relaxation. <i>Journal of the Physical Society of Japan</i> , 2008 , 77, 084702	1.5	10
27	Control of electric, optical, thermal properties of C60 films by electron-beam irradiation. <i>Carbon</i> , 2019 , 152, 882-887	10.4	9
26	Intra- and inter-atomic optical transitions of Fe, Co, and Ni ferrocyanides studied using first-principles many-electron calculations. <i>Journal of Applied Physics</i> , 2016 , 119, 235102	2.5	9
25	Shallow electron traps formed by Gd2+ ions adjacent to oxygen vacancies in cerium-doped Gd3Al2Ga3O12 crystals. <i>Applied Physics Letters</i> , 2018 , 113, 041906	3.4	8
24	Spectroscopic and first-principles calculation studies of the chemical forms of palladium ion in nitric acid solution for development of disposal of high-level radioactive nuclear wastes. <i>AIP Advances</i> , 2018 , 8, 045221	1.5	8
23	Energy location of Ce3+ 4f level and majority carrier type in Gd3Al2Ga3O12:Ce crystals studied by surface photovoltage spectroscopy. <i>Applied Physics Letters</i> , 2017 , 110, 251101	3.4	7
22	Two-Dimensional Organometallic Kondo Lattice with Long-Range Antiferromagnetic Order. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 20046-20054	3.8	7

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21	Chemical forms of molybdenum ion in nitric acid solution studied using liquid-phase X-ray absorption fine structure, Ultraviolet visible absorption spectroscopy and first-principles calculations. Chemical Physics Letters, 2019, 723, 76-81	2.5	6	
20	Spectroscopic and theoretical studies on the structural, electronic, and optical properties of zinc octaethylporphyrin/C co-deposited films. <i>Journal of Chemical Physics</i> , 2017 , 147, 214701	3.9	6	
19	Morphological and optical properties of <code>\(\alpha\)</code> and <code>\(\beta\) hase zinc () phthalocyanine thin films for application to organic photovoltaic cells. <i>Journal of Chemical Physics</i>, 2020, 153, 144704</code>	3.9	6	
18	Current Situation and Future Development of Discrete Variational Multielectron Method. <i>Advances in Quantum Chemistry</i> , 2008 , 54, 297-314	1.4	5	
17	Visualizing cation vacancies in Ce:Gd3Al2Ga3O12 scintillators by gamma-ray-induced positron annihilation lifetime spectroscopy. <i>Applied Physics Express</i> , 2020 , 13, 085505	2.4	4	
16	Visualizing hidden electron trap levels in Gd3Al2Ga3O12:Ce crystals using a mid-infrared free-electron laser. <i>Applied Physics Letters</i> , 2018 , 112, 031112	3.4	4	
15	Molecular orbital calculations of Eu-doped SrAl2O4 clusters. <i>Solid State Communications</i> , 2015 , 206, 42-	4<u>5</u>6	4	
14	Luminescence properties of YAl3(BO3)4 substituted with Sc3+ ions. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006 , 203, 2701-2704	1.6	3	
13	Correlational analysis of Eu3+ charge transfer state using La effective charge in La-based mixed-anion host compounds. <i>Japanese Journal of Applied Physics</i> , 2017 , 56, 032601	1.4	2	
12	Comparative study of Auger-free luminescence of Rb2ZnCl4 crystals between experiment and calculation. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2013 , 10, 993-996		2	
11	Sorption Properties of Aluminum Hexacyanoferrate for Platinum Group Elements. <i>Chemistry Letters</i> , 2020 , 49, 83-86	1.7	2	
10	Electron-beam irradiation of photopolymerized C60 film studied using in situ scanning tunneling microscope, in situ Fourier-transform infrared spectroscopy, and first-principles calculations. <i>AIP Advances</i> , 2020 , 10, 085212	1.5	2	
9	Local environment of W and Mo atoms in CaW1 \blacksquare Mo x O4 (x = 0.12) solid solution studied by X-ray structural analyzes. <i>Japanese Journal of Applied Physics</i> , 2019 , 58, 120602	1.4	2	
8	Theoretical and Experimental Consideration of Valence Band X-ray Photoelectron Spectroscopy Spectra of Cr-Deficient MgCr2-xO4. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, 4175-4178	1.4	1	
7	Chemical forms of rhodium ion in pure water and nitric acid solution studied using ultraviolet-visible spectroscopy and first-principles calculations. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 835, 012001	0.4	1	
6	Structural analyses of Gd3(Al,Ga)5O12 garnet solid solutions via X-ray and UV absorption spectroscopy experiments for Gd atoms. <i>Journal of Alloys and Compounds</i> , 2021 , 867, 159055	5.7	1	
5	Photopolymerization effects on the external quantum efficiency of fullerene/zinc phthalocyanine heterojunction solar cells. <i>AIP Advances</i> , 2021 , 11, 075227	1.5	1	
4	The uptake mechanism of palladium ions into Prussian-blue nanoparticles in a nitric acid solution toward application for the recycling of precious metals from electronic and nuclear wastes <i>RSC Advances</i> , 2021 , 11, 20701-20707	3.7	1	

- The uptake characteristics of Prussian-blue nanoparticles for rare metal ions for recycling of precious metals from nuclear and electronic wastes.. *Scientific Reports*, **2022**, 12, 5135
- 4.9 1
- Local structure analysis of Sb, Bi, and Ag dopant atoms in Mg2Si semiconductor by x-ray absorption spectroscopy and first-principles calculation. *Journal of Applied Physics*, **2021**, 130, 245105
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Comparative Study on Optical Properties of YPO4: Mn, Zr Phosphor by Experiment and Calculation **2015**, 217-235