

Shinta Watanabe

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

38
papers

279
citations

10
h-index

14
g-index

42
ext. papers

325
ext. citations

2.8
avg, IF

3.03
L-index

#	Paper	IF	Citations
38	The uptake characteristics of Prussian-blue nanoparticles for rare metal ions for recycling of precious metals from nuclear and electronic wastes.. <i>Scientific Reports</i> , 2022 , 12, 5135	4.9	1
37	Structural analyses of Gd ₃ (Al,Ga)5O ₁₂ 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
36	Photopolymerization effects on the external quantum efficiency of fullerene/zinc phthalocyanine heterojunction solar cells. <i>AIP Advances</i> , 2021 , 11, 075227	1.5	1
35	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
34	Local structure analysis of Sb, Bi, and Ag dopant atoms in Mg ₂ Si semiconductor by x-ray absorption spectroscopy and first-principles calculation. <i>Journal of Applied Physics</i> , 2021 , 130, 245105	2.5	0
33	Visualizing cation vacancies in Ce:Gd ₃ Al ₂ Ga ₃ O ₁₂ scintillators by gamma-ray-induced positron annihilation lifetime spectroscopy. <i>Applied Physics Express</i> , 2020 , 13, 085505	2.4	4
32	Sorption Properties of Aluminum Hexacyanoferrate for Platinum Group Elements. <i>Chemistry Letters</i> , 2020 , 49, 83-86	1.7	2
31	Morphological and optical properties of β and β' phase zinc (II) phthalocyanine thin films for application to organic photovoltaic cells. <i>Journal of Chemical Physics</i> , 2020 , 153, 144704	3.9	6
30	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
29	Electron-beam irradiation of photopolymerized C ₆₀ 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
28	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. <i>Chemical Physics Letters</i> , 2019 , 723, 76-81	2.5	6
27	Control of electric, optical, thermal properties of C ₆₀ films by electron-beam irradiation. <i>Carbon</i> , 2019 , 152, 882-887	10.4	9
26	Local environment of W and Mo atoms in CaW _{1-x} Mo _x O ₄ (x = 0.12) solid solution studied by X-ray structural analyses. <i>Japanese Journal of Applied Physics</i> , 2019 , 58, 120602	1.4	2
25	Visualizing hidden electron trap levels in Gd ₃ Al ₂ Ga ₃ O ₁₂ :Ce crystals using a mid-infrared free-electron laser. <i>Applied Physics Letters</i> , 2018 , 112, 031112	3.4	4
24	Shallow electron traps formed by Gd ²⁺ ions adjacent to oxygen vacancies in cerium-doped Gd ₃ Al ₂ Ga ₃ O ₁₂ crystals. <i>Applied Physics Letters</i> , 2018 , 113, 041906	3.4	8
23	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
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

21	Correlational analysis of Eu ³⁺ 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
20	Energy location of Ce ³⁺ 4f level and majority carrier type in Gd ₃ Al ₂ Ga ₃ O ₁₂ :Ce crystals studied by surface photovoltage spectroscopy. <i>Applied Physics Letters</i> , 2017 , 110, 251101	3.4	7
19	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
18	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
17	Molecular orbital calculations of Eu-doped SrAl ₂ O ₄ clusters. <i>Solid State Communications</i> , 2015 , 206, 42-456		4
16	Comparative Study on Optical Properties of YPO ₄ : Mn, Zr Phosphor by Experiment and Calculation 2015 , 217-235		
15	Comparative study of Auger-free luminescence of Rb ₂ ZnCl ₄ crystals between experiment and calculation. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2013 , 10, 993-996		2
14	Relativistic many-electron calculations of Cr ³⁺ L _{2,3} -edge x ray absorption near-edge structures for Cr ³⁺ :Al ₂ O ₃ and Cr ³⁺ :Cr ₂ O ₃ and magnetic circular dichroism of Cr ³⁺ L _{2,3} -edge x ray absorption near-edge structures for Cr ³⁺ :Al ₂ O ₃ . <i>Journal of Applied Physics</i> , 2011 , 110, 123524	2.5	11
13	[H(x)TeV ₉ O ₂₈](5-x)- (x=1 and 2): vanadotellurates with decavanadate structure. <i>Inorganic Chemistry</i> , 2011 , 50, 6183-8	5.1	16
12	First-principles and experimental analysis of f _n f _n d ₁ absorption spectra and multiplet energy levels of Pr ³⁺ , Nd ³⁺ , and U ³⁺ in LiYF ₄ . <i>Physical Review B</i> , 2010 , 81,	3.3	16
11	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
10	Experimental and First-Principles Analysis of 4f _n d Absorption Spectrum for Ce ³⁺ in LiYF ₄ Considering Lattice Relaxation. <i>Journal of the Physical Society of Japan</i> , 2008 , 77, 084702	1.5	10
9	Current Situation and Future Development of Discrete Variational Multielectron Method. <i>Advances in Quantum Chemistry</i> , 2008 , 54, 297-314	1.4	5
8	Chapter 231 First-principles calculations of transition spectra. <i>Fundamental Theories of Physics</i> , 2007 , 1-59	0.8	12
7	Theoretical and Experimental Consideration of Valence Band X-ray Photoelectron Spectroscopy Spectra of Cr-Deficient MgCr _{2-x} O ₄ . <i>Japanese Journal of Applied Physics</i> , 2007 , 46, 4175-4178	1.4	1
6	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
5	First-principles relativistic calculation for 4f _n d transition energy of Ce ³⁺ in various fluoride hosts. <i>Journal of Solid State Chemistry</i> , 2006 , 179, 2438-2442	3.3	20
4	Optical Transitions near the Fundamental Absorption Edge and Electronic Structures of YAl ₃ (BO ₃) ₄ :Gd ³⁺ . <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 146-151	1.4	22

3	Luminescence properties of $YAl_3(BO_3)_4$ substituted with Sc^{3+} ions. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006 , 203, 2701-2704	1.6	3
2	Relativistic Calculations of Complete 4f _n Energy Level Schemes of Free Trivalent Rare-Earth Ions. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 7488-7490	1.4	16
1	Calculations of Complete 4f _n and 4f _n -15d ₁ Energy Level Schemes of Free Trivalent Rare-Earth Ions. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, L611-L613	1.4	26