Masato Tazawa

List of Publications by Citations

71 papers	1,427 citations	21 h-index	36 g-index
76 ext. papers	1,548 ext. citations	3 avg, IF	3.99 L-index

#	Paper	IF	Citations
71	Optimization of antireflection coating for VO2-based energy efficient window. *Solar Energy Materials and Solar Cells*, **2004**, 83, 29-37	6.4	146
70	Thickness dependence of optical properties of VO2 thin films epitaxially grown on sapphire (0 0 0 1). *Applied Surface Science*, **2005**, 244, 449-452	6.7	103
69	Optical Properties of Vanadium Dioxide Film during Semiconductive–Metallic Phase Transition. *Japanese Journal of Applied Physics*, **2007**, 46, L113-L116	1.4	80
68	A VO2-Based Multifunctional Window with Highly Improved Luminous Transmittance. *Japanese Journal of Applied Physics*, **2002**, 41, L278-L280	1.4	77
67	Surface plasmon resonance of silver nanoparticles on vanadium dioxide. *Journal of Physical Chemistry B*, **2006**, 110, 2051-6	3.4	75
66	Optical constants of V(1-x)W(x)O(2) Films. *Applied Optics*, **1998**, 37, 1858-61	1.7	73
65	Control of thermochromic spectrum in vanadium dioxide by amorphous silicon suboxide layer. *Solar Energy Materials and Solar Cells*, **2008**, 92, 1279-1284	6.4	67
64	Apatite Formation on TiO2 Photocatalyst Film in a Pseudo Body Solution. *Materials Research Bulletin*, **1998**, 33, 125-131	5.1	66
63	Fabrication of multifunctional coating which combines low-e property and visible-light-responsive photocatalytic activity. *Thin Solid Films*, **2003**, 442, 217-221	2.2	56
62	Electron injection assisted phase transition in a nano-Au-VO2 junction. *Applied Physics Letters*, **2008**, 93, 061911	3.4	51
61	Self-Assembled Multilayer Structure and Enhanced Thermochromic Performance of Spinodally Decomposed TiO2-VO2 Thin Film. *ACS Applied Materials & Interfaces*, **2016**, 8, 7054-9	9.5	43
60	Nano-Ag on vanadium dioxide. II. Thermal tuning of surface plasmon resonance. *Journal of Applied Physics*, **2008**, 104, 053102	2.5	43
59	Tailoring of Luminous Transmittance upon Switching for Thermochromic VO2Films by Thickness Control. *Japanese Journal of Applied Physics*, **2004**, 43, 186-187	1.4	40
58	Nano-Ag on vanadium dioxide. I. Localized spectrum tailoring. *Journal of Applied Physics*, **2008**, 104, 053101	2.5	32
57	Optical investigation of silicon nitride thin films deposited by r.f. magnetron sputtering. *Thin Solid Films*, **2003**, 425, 196-202	2.2	31
56	Fabrication of photocatalytic heat-mirror with TiO2/TiN/TiO2 stacked layers. *Vacuum*, **2006**, 80, 732-735	3.7	29
55	Electronic structure modification of ZnO and Al-doped ZnO films by ions. *Surface and Coatings Technology*, **2005**, 196, 50-55	4.4	28

54	New material design with V1−xWxO2 film for sky radiator to obtain temperature stability. *Solar Energy*, **1998**, 64, 3-7	6.8	25
53	Tunable optical properties of nano-Au on vanadium dioxide. *Optics Communications*, **2009**, 282, 896-902	2	23
52	Thin film used to obtain a constant temperature lower than the ambient. *Thin Solid Films*, **1996**, 281-282, 232-234	2.2	23
51	Room-Temperature Hydrogen Sensor Based on Pd-Capped Mg2Ni Thin Film. *Japanese Journal of Applied Physics*, **2004**, 43, L507-L509	1.4	21
50	High-energy Cu and O ion co-implantation into silica glasses. *Nuclear Instruments & Methods in Physics Research B*, **1998**, 141, 246-251	1.2	20
49	Photo-catalytic heat mirror with a thick titanium dioxide layer. *Solar Energy Materials and Solar Cells* , **2004**, 84, 159-170	6.4	19
48	Optical characterization of vanadium–titanium oxide films. *Thin Solid Films*, **2008**, 516, 4563-4567	2.2	17
47	Analysis of Anisotropic Diffraction Gratings Using Holographic Polymer-Dispersed Liquid Crystal. *Japanese Journal of Applied Physics*, **2007**, 46, 7341-7346	1.4	17
46	Thermal control of transmittance/diffraction states of holographic structures composed of polymer and liquid crystal phases. *Solar Energy Materials and Solar Cells*, **2010**, 94, 1747-1752	6.4	16
45	Optical constants of vacuum evaporated SiO film and an application. *Journal of Electroceramics*, **2006**, 16, 511-515	1.5	14
44	Low-energy electron energy loss spectroscopy of rutile and anatase TiO2 films in the core electron excitation regions. *Surface Science*, **2004**, 566-568, 1030-1034	1.8	14
43	Thickness-Dependent Structural and Optical Properties of VO2Thin Films. *Japanese Journal of Applied Physics*, **2011**, 50, 020215	1.4	13
42	Changes in surface morphology and optical properties of polymers induced by ion implantation. *Thin Solid Films*, **1996**, 281-282, 529-532	2.2	12
41	Far-infrared spectra of magnesium oxide. *Applied Optics*, **1994**, 33, 57-9	1.7	12
40	Effects of thermal modulation on diffraction in liquid crystal composite gratings. *Applied Optics*, **2010**, 49, 4633-40	0.2	10
39	Optical diffractometry of highly anisotropic holographic gratings formed by liquid crystal and polymer phase separation. *Physical Review E*, **2012**, 86, 061701	2.4	9
38	Residual losses of superconducting thin films of YBa2Cu3O7−δ in the far infrared and microwaves Applications. *Physica C: Superconductivity and Its Applications*, **1995**, 245, 219-230	1.3	9
37	Thickness-Dependent Structural and Optical Properties of VO2Thin Films. *Japanese Journal of Applied Physics*, **2011**, 50, 020215	1.4	9

36	Wavelength multiplexing and tuning in nano-Ag/dielectric multilayers. *Applied Physics A: Materials Science and Processing*, **2009**, 94, 525-530	2.6	8
35	IR properties of SiO deposited on V1⊠WxO2 thermochromic films by vacuum evaporation. *Thin Solid Films*, **2000**, 375, 100-103	2.2	8
34	High-energy co-implantation of Ti and O ions into sapphire. *Materials Chemistry and Physics*, **1998**, 54, 342-345	4.4	7
33	Two-step nitridation of photocatalytic TiO2 films by low energy ion irradiation. *Applied Surface Science*, **2007**, 254, 156-159	6.7	7
32	Optical Characterization of Titanium⊠Vanadium Oxide Films. *Japanese Journal of Applied Physics*, **2007**, 46, 621-626	1.4	7
31	Annealing of Silica Glasses Implanted with High-Energy Copper Ions. *Japanese Journal of Applied Physics*, **1997**, 36, 7681-7685	1.4	6
30	Preparation and optical transmittance of titanium hydride (deutende) films by rf reactive sputtering. *Thin Solid Films*, **1999**, 343-344, 195-198	2.2	6
29	Computational design of SiO-based spectral selective radiating film **1994**,		6
28	Study on the PAN carbon-fiber-innovation for modeling a successful R&D management. *Synthesiology*, **2009**, 2, 154-164	0.1	5
27	Optical properties of alumina ceramics as a substrate of thin film solar cells. *Solar Energy Materials and Solar Cells*, **1997**, 48, 315-320	6.4	5
26	Control of anisotropic diffraction in liquid-crystal composite volume gratings. *Optics Letters*, **2008**, 33, 1521-3	3	5
25	Spectral selective radiating materials for direct radiative heating. *Solar Energy Materials and Solar Cells*, **2004**, 84, 459-466	6.4	5
24	Diffuse reflection of ceramics coated with dielectric thin films. *Applied Optics*, **2003**, 42, 1352-9	1.7	5
23	Temperature dependence of optical constants of La0.7Sr0.3MnO3 thin films. *Applied Surface Science*, **2017**, 421, 866-869	6.7	3
22	Optical Constants of Vanadium Dioxide Films and Design of a Solar Energy Control Window. *Materials Research Society Symposia Proceedings*, **2003**, 785, 1051		3
21	Optical constants of V1-xWxO2 thermochromic films and their application to the selective radiating material **1995**,		3
20	Thermochromism of metal-doped VO2 films deposited by dual-target sputtering **1994**, 2255, 415		3
19	Optical Confinement Properties of Crystalline Silicon Film on Ceramic Substrate. *Japanese Journal of Applied Physics*, **2002**, 41, 4586-4593	1.4	2

18	A New Method of Grating Spectroscopy. *Japanese Journal of Applied Physics*, **1983**, 22, L400-L402	1.4	2
17	Meso-scale wrinkled coatings to improve heat transfers of surfaces facing ambient air. *Applied Thermal Engineering*, **2015**, 87, 251-257	5.8	1
16	2 diffractometry of anisotropic holographic gratings composed of liquid crystal and polymer phases **2013**,		1
15	Ellipsometric study of dielectric functions of Mg(1-y)Ca(y)H(x) thin films (0.03 0.17). *Applied Optics*, **2011**, 50, 3879-84	0.2	1
14	Long-Term Optical and Thermal Examinations of Ceramic Wall System with Solar-Altitude Dependent Reflectance. *Advances in Science and Technology*, **2010**, 68, 53-58	0.1	1
13	Transparent ellipsometric memory with thin film multilayer structures. *Applied Surface Science*, **2003**, 212-213, 402-405	6.7	1
12	On the use of high-Tc superconductors for Perot-Fabry mirrors coatings. *Journal of Infrared, Millimeter and Terahertz Waves*, **1995**, 16, 1173-1187		1
11	A new spectroscopic method using the Fraunhofer diffraction pattern. *Journal of Infrared, Millimeter and Terahertz Waves*, **1984**, 5, 985-996		1
10	Optical Constants of VO2 Thin Film and Solar Energy Control Window. *Netsu Bussei*, **2006**, 20, 109-114	0.1	1
9	Ellipsometric study of the electronic behaviors of titanium-vanadium dioxide (TixV1 O2) films for 0 x 1 during semiconductive-to-metallic phase transition. *Applied Physics Letters*, **2021**, 118, 081901	3.4	0
8	Adsorption of Bromic Acid Ion in Water by the Reduced Titanium Oxide. *Materials Science Forum*, **2012**, 724, 97-100	0.4	
7	tude de la variation de la longueur de London entre 5 et 70 K, dans un film tr mince d YBa2Cu3O7 par spectrom trie dans l nfrarouge lointain; comparaison avec NbN. *Comptes Rendus De L Acad mie Des Sciences - Series IIB - Mechanics-Physics-Chemistry-Astronomy*, **1997**, 324, 389-397		
6	Optical confinement of the intermediate layer between Si and alumina substrate in thin film Si solar cells. *Solar Energy Materials and Solar Cells*, **2002**, 74, 267-274	6.4	
5	FT-IR Spectroscopic Investigations on the Formation of Zn2SiO4:Mn2+ Fluorescent Thin Film by Spray Pyrolysis.. *Journal of the Ceramic Society of Japan*, **2002**, 110, 211-214		
4	Adaptation of the sheet resistance of an YBaCuO layer to the substrate impedance, applications. *Journal of Infrared, Millimeter and Terahertz Waves*, **1996**, 17, 693-704		
3	Surface layers and far infrared spectra of High-Tc superconductors. *Infrared Physics*, **1993**, 34, 501-511		
2	Optical Properties and Radiative Cooling Power of White Paints **2000**, 485-488		
1	Solar Lighting An Outline of the State and Two Recent Examples. *Journal of the Institute of Electrical Engineers of Japan*, **2011**, 131, 155-158	0	