

Masato Tazawa

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.

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	Ellipsometric study of the electronic behaviors of titanium-vanadium dioxide ($\text{Ti}_x\text{V}_{1-x}\text{O}_2$) films for 0 < x < 1 during semiconductive-to-metallic phase transition. <i>Applied Physics Letters</i> , 2021 , 118, 081901	3.4	0
70	Temperature dependence of optical constants of $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ thin films. <i>Applied Surface Science</i> , 2017 , 421, 866-869	6.7	3
69	Self-Assembled Multilayer Structure and Enhanced Thermo-chromic Performance of Spinodally Decomposed TiO_2 - VO_2 Thin Film. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 7054-9	9.5	43
68	Meso-scale wrinkled coatings to improve heat transfers of surfaces facing ambient air. <i>Applied Thermal Engineering</i> , 2015 , 87, 251-257	5.8	1
67	Optical diffractometry of anisotropic holographic gratings composed of liquid crystal and polymer phases 2013 ,		1
66	Optical diffractometry of highly anisotropic holographic gratings formed by liquid crystal and polymer phase separation. <i>Physical Review E</i> , 2012 , 86, 061701	2.4	9
65	Adsorption of Bromic Acid Ion in Water by the Reduced Titanium Oxide. <i>Materials Science Forum</i> , 2012 , 724, 97-100	0.4	
64	Ellipsometric study of dielectric functions of $\text{Mg}_{(1-y)}\text{Ca}_y\text{H}_x$ thin films (0.03 < y < 0.17). <i>Applied Optics</i> , 2011 , 50, 3879-84	0.2	1
63	Thickness-Dependent Structural and Optical Properties of VO_2 Thin Films. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 020215	1.4	13
62	Thickness-Dependent Structural and Optical Properties of VO_2 Thin Films. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 020215	1.4	9
61	Solar Lighting—An Outline of the State and Two Recent Examples. <i>Journal of the Institute of Electrical Engineers of Japan</i> , 2011 , 131, 155-158	0	
60	Long-Term Optical and Thermal Examinations of Ceramic Wall System with Solar-Altitude Dependent Reflectance. <i>Advances in Science and Technology</i> , 2010 , 68, 53-58	0.1	1
59	Effects of thermal modulation on diffraction in liquid crystal composite gratings. <i>Applied Optics</i> , 2010 , 49, 4633-40	0.2	10
58	Thermal control of transmittance/diffraction states of holographic structures composed of polymer and liquid crystal phases. <i>Solar Energy Materials and Solar Cells</i> , 2010 , 94, 1747-1752	6.4	16
57	Study on the PAN carbon-fiber-innovation for modeling a successful R&D management. <i>Synthesiology</i> , 2009 , 2, 154-164	0.1	5
56	Wavelength multiplexing and tuning in nano-Ag/dielectric multilayers. <i>Applied Physics A: Materials Science and Processing</i> , 2009 , 94, 525-530	2.6	8
55	Tunable optical properties of nano-Au on vanadium dioxide. <i>Optics Communications</i> , 2009 , 282, 896-902	2	23

54	Control of anisotropic diffraction in liquid-crystal composite volume gratings. <i>Optics Letters</i> , 2008 , 33, 1521-3	3	5
53	Electron injection assisted phase transition in a nano-Au-VO ₂ junction. <i>Applied Physics Letters</i> , 2008 , 93, 061911	3.4	51
52	Nano-Ag on vanadium dioxide. II. Thermal tuning of surface plasmon resonance. <i>Journal of Applied Physics</i> , 2008 , 104, 053102	2.5	43
51	Nano-Ag on vanadium dioxide. I. Localized spectrum tailoring. <i>Journal of Applied Physics</i> , 2008 , 104, 053101	3.4	32
50	Control of thermochromic spectrum in vanadium dioxide by amorphous silicon suboxide layer. <i>Solar Energy Materials and Solar Cells</i> , 2008 , 92, 1279-1284	6.4	67
49	Optical characterization of vanadium-titanium oxide films. <i>Thin Solid Films</i> , 2008 , 516, 4563-4567	2.2	17
48	Optical Properties of Vanadium Dioxide Film during Semiconductive-Metallic Phase Transition. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, L113-L116	1.4	80
47	Two-step nitridation of photocatalytic TiO ₂ films by low energy ion irradiation. <i>Applied Surface Science</i> , 2007 , 254, 156-159	6.7	7
46	Optical Characterization of Titanium-Vanadium Oxide Films. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, 621-626	1.4	7
45	Analysis of Anisotropic Diffraction Gratings Using Holographic Polymer-Dispersed Liquid Crystal. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, 7341-7346	1.4	17
44	Fabrication of photocatalytic heat-mirror with TiO ₂ /TiN/TiO ₂ stacked layers. <i>Vacuum</i> , 2006 , 80, 732-735	3.7	29
43	Surface plasmon resonance of silver nanoparticles on vanadium dioxide. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 2051-6	3.4	75
42	Optical constants of vacuum evaporated SiO film and an application. <i>Journal of Electroceramics</i> , 2006 , 16, 511-515	1.5	14
41	Optical Constants of VO ₂ Thin Film and Solar Energy Control Window. <i>Netsu Bussei</i> , 2006 , 20, 109-114	0.1	1
40	Electronic structure modification of ZnO and Al-doped ZnO films by ions. <i>Surface and Coatings Technology</i> , 2005 , 196, 50-55	4.4	28
39	Thickness dependence of optical properties of VO ₂ thin films epitaxially grown on sapphire (0 0 0 1). <i>Applied Surface Science</i> , 2005 , 244, 449-452	6.7	103
38	Room-Temperature Hydrogen Sensor Based on Pd-Capped Mg ₂ Ni Thin Film. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, L507-L509	1.4	21
37	Tailoring of Luminous Transmittance upon Switching for Thermochromic VO ₂ Films by Thickness Control. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, 186-187	1.4	40

36	Spectral selective radiating materials for direct radiative heating. <i>Solar Energy Materials and Solar Cells</i> , 2004 , 84, 459-466	6.4	5
35	Optimization of antireflection coating for VO ₂ -based energy efficient window. <i>Solar Energy Materials and Solar Cells</i> , 2004 , 83, 29-37	6.4	146
34	Photo-catalytic heat mirror with a thick titanium dioxide layer. <i>Solar Energy Materials and Solar Cells</i> , 2004 , 84, 159-170	6.4	19
33	Low-energy electron energy loss spectroscopy of rutile and anatase TiO ₂ films in the core electron excitation regions. <i>Surface Science</i> , 2004 , 566-568, 1030-1034	1.8	14
32	Transparent ellipsometric memory with thin film multilayer structures. <i>Applied Surface Science</i> , 2003 , 212-213, 402-405	6.7	1
31	Optical investigation of silicon nitride thin films deposited by r.f. magnetron sputtering. <i>Thin Solid Films</i> , 2003 , 425, 196-202	2.2	31
30	Fabrication of multifunctional coating which combines low-e property and visible-light-responsive photocatalytic activity. <i>Thin Solid Films</i> , 2003 , 442, 217-221	2.2	56
29	Diffuse reflection of ceramics coated with dielectric thin films. <i>Applied Optics</i> , 2003 , 42, 1352-9	1.7	5
28	Optical Constants of Vanadium Dioxide Films and Design of a Solar Energy Control Window. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 785, 1051		3
27	Optical confinement of the intermediate layer between Si and alumina substrate in thin film Si solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2002 , 74, 267-274	6.4	
26	A VO ₂ -Based Multifunctional Window with Highly Improved Luminous Transmittance. <i>Japanese Journal of Applied Physics</i> , 2002 , 41, L278-L280	1.4	77
25	Optical Confinement Properties of Crystalline Silicon Film on Ceramic Substrate. <i>Japanese Journal of Applied Physics</i> , 2002 , 41, 4586-4593	1.4	2
24	FT-IR Spectroscopic Investigations on the Formation of Zn ₂ SiO ₄ :Mn ²⁺ Fluorescent Thin Film by Spray Pyrolysis.. <i>Journal of the Ceramic Society of Japan</i> , 2002 , 110, 211-214		
23	IR properties of SiO deposited on V _{1-x} W _x O ₂ thermochromic films by vacuum evaporation. <i>Thin Solid Films</i> , 2000 , 375, 100-103	2.2	8
22	Optical Properties and Radiative Cooling Power of White Paints 2000 , 485-488		
21	Preparation and optical transmittance of titanium hydride (deutende) films by rf reactive sputtering. <i>Thin Solid Films</i> , 1999 , 343-344, 195-198	2.2	6
20	High-energy Cu and O ion co-implantation into silica glasses. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1998 , 141, 246-251	1.2	20
19	High-energy co-implantation of Ti and O ions into sapphire. <i>Materials Chemistry and Physics</i> , 1998 , 54, 342-345	4.4	7

18	Apatite Formation on TiO ₂ Photocatalyst Film in a Pseudo Body Solution. <i>Materials Research Bulletin</i> , 1998 , 33, 125-131	5.1	66
17	New material design with V _{1-x} W _x O ₂ film for sky radiator to obtain temperature stability. <i>Solar Energy</i> , 1998 , 64, 3-7	6.8	25
16	Optical constants of V(1-x)W(x)O(2) Films. <i>Applied Optics</i> , 1998 , 37, 1858-61	1.7	73
15	Annealing of Silica Glasses Implanted with High-Energy Copper Ions. <i>Japanese Journal of Applied Physics</i> , 1997 , 36, 7681-7685	1.4	6
14	Optical properties of alumina ceramics as a substrate of thin film solar cells. <i>Solar Energy Materials and Solar Cells</i> , 1997 , 48, 315-320	6.4	5
13	Étude de la variation de la longueur de London entre 5 et 70 K, dans un film très mince d'YBa ₂ Cu ₃ O ₇ par spectrométrie dans l'infrarouge lointain; comparaison avec NbN. <i>Comptes Rendus De L'Académie Des Sciences - Series IIB - Mechanics-Physics-Chemistry-Astronomy</i> , 1997 , 324, 389-397		
12	Thin film used to obtain a constant temperature lower than the ambient. <i>Thin Solid Films</i> , 1996 , 281-282, 232-234	2.2	23
11	Changes in surface morphology and optical properties of polymers induced by ion implantation. <i>Thin Solid Films</i> , 1996 , 281-282, 529-532	2.2	12
10	Adaptation of the sheet resistance of an YBaCuO layer to the substrate impedance, applications. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1996 , 17, 693-704		
9	On the use of high-T _c superconductors for Perot-Fabry mirrors coatings. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1995 , 16, 1173-1187		1
8	Residual losses of superconducting thin films of YBa ₂ Cu ₃ O ₇ in the far infrared and microwaves Applications. <i>Physica C: Superconductivity and Its Applications</i> , 1995 , 245, 219-230	1.3	9
7	Optical constants of V _{1-x} W _x O ₂ thermochromic films and their application to the selective radiating material 1995 ,		3
6	Computational design of SiO-based spectral selective radiating film 1994 ,		6
5	Thermochromism of metal-doped VO ₂ films deposited by dual-target sputtering 1994 , 2255, 415		3
4	Far-infrared spectra of magnesium oxide. <i>Applied Optics</i> , 1994 , 33, 57-9	1.7	12
3	Surface layers and far infrared spectra of High-T _c superconductors. <i>Infrared Physics</i> , 1993 , 34, 501-511		
2	A new spectroscopic method using the Fraunhofer diffraction pattern. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1984 , 5, 985-996		1
1	A New Method of Grating Spectroscopy. <i>Japanese Journal of Applied Physics</i> , 1983 , 22, L400-L402	1.4	2

