

Masato Tazawa

List of Publications by Year in descending order

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74
papers

1,640
citations

304701

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76
all docs

76
docs citations

76
times ranked

1540
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Optimization of antireflection coating for VO ₂ -based energy efficient window. Solar Energy Materials and Solar Cells, 2004, 83, 29-37. | 6.2 | 176 |
| 2 | Thickness dependence of optical properties of VO ₂ thin films epitaxially grown on sapphire (0001). Applied Surface Science, 2005, 244, 449-452. | 6.1 | 119 |
| 3 | Optical Properties of Vanadium Dioxide Film during Semiconductive→Metallic Phase Transition. Japanese Journal of Applied Physics, 2007, 46, L113-L116. | 1.5 | 102 |
| 4 | Surface Plasmon Resonance of Silver Nanoparticles on Vanadium Dioxide. Journal of Physical Chemistry B, 2006, 110, 2051-2056. | 2.6 | 90 |
| 5 | Optical constants of V _{1-x} W _x O ₂ films. Applied Optics, 1998, 37, 1858. | 2.1 | 84 |
| 6 | A VO ₂ -Based Multifunctional Window with Highly Improved Luminous Transmittance. Japanese Journal of Applied Physics, 2002, 41, L278-L280. | 1.5 | 83 |
| 7 | Apatite Formation on TiO ₂ Photocatalyst Film in a Pseudo Body Solution. Materials Research Bulletin, 1998, 33, 125-131. | 5.2 | 72 |
| 8 | Control of thermochromic spectrum in vanadium dioxide by amorphous silicon suboxide layer. Solar Energy Materials and Solar Cells, 2008, 92, 1279-1284. | 6.2 | 72 |
| 9 | Fabrication of multifunctional coating which combines low-e property and visible-light-responsive photocatalytic activity. Thin Solid Films, 2003, 442, 217-221. | 1.8 | 58 |
| 10 | Electron injection assisted phase transition in a nano-Au-VO ₂ junction. Applied Physics Letters, 2008, 93, . | 3.3 | 55 |
| 11 | Self-Assembled Multilayer Structure and Enhanced Thermochromic Performance of Spinodally Decomposed TiO ₂ →VO ₂ Thin Film. ACS Applied Materials & Interfaces, 2016, 8, 7054-7059. | 8.0 | 49 |
| 12 | Tailoring of Luminous Transmittance upon Switching for Thermochromic VO ₂ Films by Thickness Control. Japanese Journal of Applied Physics, 2004, 43, 186-187. | 1.5 | 48 |
| 13 | Nano-Ag on vanadium dioxide. II. Thermal tuning of surface plasmon resonance. Journal of Applied Physics, 2008, 104, . | 2.5 | 47 |
| 14 | Optical investigation of silicon nitride thin films deposited by r.f. magnetron sputtering. Thin Solid Films, 2003, 425, 196-202. | 1.8 | 40 |
| 15 | Nano-Ag on vanadium dioxide. I. Localized spectrum tailoring. Journal of Applied Physics, 2008, 104, . | 2.5 | 37 |
| 16 | Electronic structure modification of ZnO and Al-doped ZnO films by ions. Surface and Coatings Technology, 2005, 196, 50-55. | 4.8 | 30 |
| 17 | Fabrication of photocatalytic heat-mirror with TiO ₂ /TiN/TiO ₂ stacked layers. Vacuum, 2006, 80, 732-735. | 3.5 | 30 |
| 18 | New material design with V _{1-x} W _x O ₂ film for sky radiator to obtain temperature stability. Solar Energy, 1998, 64, 3-7. | 6.1 | 29 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Tunable optical properties of nano-Au on vanadium dioxide. <i>Optics Communications</i> , 2009, 282, 896-902. | 2.1 | 26 |
| 20 | Thin film used to obtain a constant temperature lower than the ambient. <i>Thin Solid Films</i> , 1996, 281-282, 232-234. | 1.8 | 23 |
| 21 | High-energy Cu and O ion co-implantation into silica glasses. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1998, 141, 246-251. | 1.4 | 23 |
| 22 | Optical characterization of vanadium-titanium oxide films. <i>Thin Solid Films</i> , 2008, 516, 4563-4567. | 1.8 | 23 |
| 23 | 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. | 6.2 | 22 |
| 24 | Room-Temperature Hydrogen Sensor Based on Pd-Capped Mg ₂ Ni Thin Film. <i>Japanese Journal of Applied Physics</i> , 2004, 43, L507-L509. | 1.5 | 21 |
| 25 | Photo-catalytic heat mirror with a thick titanium dioxide layer. <i>Solar Energy Materials and Solar Cells</i> , 2004, 84, 159-170. | 6.2 | 20 |
| 26 | Optical constants of vacuum evaporated SiO film and an application. <i>Journal of Electroceramics</i> , 2006, 16, 511-515. | 2.0 | 19 |
| 27 | Analysis of Anisotropic Diffraction Gratings Using Holographic Polymer-Dispersed Liquid Crystal. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 7341. | 1.5 | 18 |
| 28 | Far-infrared spectra of magnesium oxide. <i>Applied Optics</i> , 1994, 33, 57. | 2.1 | 15 |
| 29 | 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. | 1.9 | 15 |
| 30 | Thickness-Dependent Structural and Optical Properties of VO ₂ Thin Films. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 020215. | 1.5 | 15 |
| 31 | Changes in surface morphology and optical properties of polymers induced by ion implantation. <i>Thin Solid Films</i> , 1996, 281-282, 529-532. | 1.8 | 13 |
| 32 | Effects of thermal modulation on diffraction in liquid crystal composite gratings. <i>Applied Optics</i> , 2010, 49, 4633. | 2.1 | 12 |
| 33 | Thickness-Dependent Structural and Optical Properties of VO ₂ Thin Films. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 020215. | 1.5 | 11 |
| 34 | Residual losses of superconducting thin films of YBa ₂ Cu ₃ O _{7-δ} in the far infrared and microwaves Applications. <i>Physica C: Superconductivity and Its Applications</i> , 1995, 245, 219-230. | 1.2 | 10 |
| 35 | Optical Constants of Vanadium Dioxide Films and Design of a Solar Energy Control Window. <i>Materials Research Society Symposia Proceedings</i> , 2003, 785, 1051. | 0.1 | 9 |
| 36 | Optical diffractometry of highly anisotropic holographic gratings formed by liquid crystal and polymer phase separation. <i>Physical Review E</i> , 2012, 86, 061701. | 2.1 | 9 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | IR properties of SiO deposited on $V_{1-x}W_xO_2$ thermochromic films by vacuum evaporation. Thin Solid Films, 2000, 375, 100-103. | 1.8 | 8 |
| 38 | Optical Characterization of Titanium-Vanadium Oxide Films. Japanese Journal of Applied Physics, 2007, 46, 621-626. | 1.5 | 8 |
| 39 | Two-step nitridation of photocatalytic TiO ₂ films by low energy ion irradiation. Applied Surface Science, 2007, 254, 156-159. | 6.1 | 8 |
| 40 | Wavelength multiplexing and tuning in nano-Ag/dielectric multilayers. Applied Physics A: Materials Science and Processing, 2009, 94, 525-530. | 2.3 | 8 |
| 41 | Annealing of Silica Glasses Implanted with High-Energy Copper Ions. Japanese Journal of Applied Physics, 1997, 36, 7681-7685. | 1.5 | 7 |
| 42 | High-energy co-implantation of Ti and O ions into sapphire. Materials Chemistry and Physics, 1998, 54, 342-345. | 4.0 | 7 |
| 43 | Preparation and optical transmittance of titanium hydride (deutende) films by rf reactive sputtering. Thin Solid Films, 1999, 343-344, 195-198. | 1.8 | 7 |
| 44 | Control of anisotropic diffraction in liquid-crystal composite volume gratings. Optics Letters, 2008, 33, 1521. | 3.3 | 7 |
| 45 | <title>Computational design of SiO-based spectral selective radiating film</title>. , 1994, , . | | 6 |
| 46 | Diffuse reflection of ceramics coated with dielectric thin films. Applied Optics, 2003, 42, 1352. | 2.1 | 6 |
| 47 | Spectral selective radiating materials for direct radiative heating. Solar Energy Materials and Solar Cells, 2004, 84, 459-466. | 6.2 | 6 |
| 48 | Study on the PAN carbon-fiber-innovation for modeling a successful R&D management. Synthesiology, 2009, 2, 154-164. | 0.2 | 6 |
| 49 | Optical properties of alumina ceramics as a substrate of thin film solar cells. Solar Energy Materials and Solar Cells, 1997, 48, 315-320. | 6.2 | 5 |
| 50 | <title>Thermochromism of metal-doped VO_2 films deposited by dual-target sputtering</title>. , 1994, 2255, 415. | | 3 |
| 51 | <title>Optical constants of $V_{1-x}W_xO_2$ thermochromic films and their application to the selective radiating material</title>. Proceedings of SPIE, 1995, . | 0.8 | 3 |
| 52 | Temperature dependence of optical constants of La _{0.7} Sr _{0.3} MnO ₃ thin films. Applied Surface Science, 2017, 421, 866-869. | 6.1 | 3 |
| 53 | Ellipsometric study of the electronic behaviors of titanium-vanadium dioxide ($Ti_{1-x}V_xO_2$) films for $0 \leq x \leq 1$ during semiconductive-to-metallic phase transition. Applied Physics Letters, 2021, 118, . | 3.3 | 3 |
| 54 | A New Method of Grating Spectroscopy. Japanese Journal of Applied Physics, 1983, 22, L400-L402. | 1.5 | 2 |

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| 55 | Optical Confinement Properties of Crystalline Silicon Film on Ceramic Substrate. Japanese Journal of Applied Physics, 2002, 41, 4586-4593. | 1.5 | 2 |
| 56 | A new spectroscopic method using the Fraunhofer diffraction pattern. Journal of Infrared, Millimeter and Terahertz Waves, 1984, 5, 985-996. | 0.6 | 1 |
| 57 | On the use of high-Tc superconductors for Perot-Fabry mirrors coatings. Journal of Infrared, Millimeter and Terahertz Waves, 1995, 16, 1173-1187. | 0.6 | 1 |
| 58 | Transparent ellipsometric memory with thin film multilayer structures. Applied Surface Science, 2003, 212-213, 402-405. | 6.1 | 1 |
| 59 | Long-Term Optical and Thermal Examinations of Ceramic Wall System with Solar-Altitude Dependent Reflectance. Advances in Science and Technology, 2010, 68, 53-58. | 0.2 | 1 |
| 60 | Ellipsometric study of dielectric functions of Mg _{1-x} Ca _y H _x thin films (003-017). Applied Optics, 2011, 50, 3879. | 2.1 | 1 |
| 61 | $\hat{\mu}_r$; diffractometry of anisotropic holographic gratings composed of liquid crystal and polymer phases. Proceedings of SPIE, 2013, , . | 0.8 | 1 |
| 62 | Meso-scale wrinkled coatings to improve heat transfers of surfaces facing ambient air. Applied Thermal Engineering, 2015, 87, 251-257. | 6.0 | 1 |
| 63 | Optical Properties and Radiative Cooling Power of White Paints. , 2000, , 485-488. | | 1 |
| 64 | Optical Constants of VO ₂ Thin Film and Solar Energy Control Window. Netsu Bussei, 2006, 20, 109-114. | 0.1 | 1 |
| 65 | Synthesis and property of polymer-anchored cobalt catalysts for the isomerization of quadricyclene.. Kobunshi Ronbunshu, 1987, 44, 437-444. | 0.2 | 0 |
| 66 | Far-IR transmission spectra of YBa ₂ Cu ₃ O _{7-d} thin films. , 1990, , . | | 0 |
| 67 | Surface layers and far infrared spectra of High-Tc superconductors. Infrared Physics, 1993, 34, 501-511. | 0.5 | 0 |
| 68 | 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. | 0.6 | 0 |
| 69 | FT-IR Spectroscopic Investigations on the Formation of Zn ₂ SiO ₄ :Mn ²⁺ Fluorescent Thin Film by Spray Pyrolysis.. Journal of the Ceramic Society of Japan, 2002, 110, 211-214. | 1.3 | 0 |
| 70 | 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. | 6.2 | 0 |
| 71 | Adsorption of Bromic Acid Ion in Water by the Reduced Titanium Oxide. Materials Science Forum, 2012, 724, 97-100. | 0.3 | 0 |
| 72 | Polarization-selective Bragg diffractive wavelengths in holographic structures composed of liquid crystal and polymer phases. , 2014, , . | | 0 |

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|----|--|-----|-----------|
| 73 | Title is missing!. Journal of the Japan Society for Precision Engineering, 2005, 71, 827-830. | 0.1 | 0 |
| 74 | Solar Lighting”An Outline of the State and Two Recent Examples. Journal of the Institute of Electrical Engineers of Japan, 2011, 131, 155-158. | 0.0 | 0 |