# Yasusei Yamada

List of Publications by Year
in descending order

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|---|---|---|---|
| 97 papers | 1,612 citations | 279798 23 h-index | 361022 35 g-index |
| 97 all docs | 97 docs citations | 97 times ranked | 923 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Room-temperature fabrication of Pt nanoparticle-dispersed porous WO3 gasochromic switchable films using oxalic acid. Solar Energy Materials and Solar Cells, 2022, 245, 111891. | 6.2 | 2 |
| 2 | Ellipsometric study of the electronic behaviors of titanium-vanadium dioxide (Ti<i>x</i>V1âˆ'<i>x</i>O2) films for 0 â‰ <i>x</i> â‰ 1 during semiconductive-to-metallic phase transition. Applied Physics Letters, 2021, 118, . | 3.3 | 3 |
| 3 | Gas and humidity analyses in gasochromic processes of switchable mirrors. Solar Energy Materials and Solar Cells, 2021, 233, 111389. | 6.2 | 1 |
| 4 | Low-temperature chemical fabrication of WO3 gasochromic switchable films: a comparative study of Pd and Pt nanoparticles dispersed WO3 films based on their structural and chemical properties. Thin Solid Films, 2020, 709, 138201. | 1.8 | 13 |
| 5 | Roll-to-roll production of Prussian blue/Pt nanocomposite films for flexible gasochromic applications. Inorganica Chimica Acta, 2020, 505, 119466. | 2.4 | 5 |
| 6 | High contrast gasochromism of wet processable thin film with chromic and catalytic nanoparticles. Journal of Materials Chemistry C, 2018, 6, 4760-4764. | 5.5 | 9 |
| 7 | Fabrication of nickel oxyhydroxide/palladium (NiOOH/Pd) nanocomposite for gasochromic application. Solar Energy Materials and Solar Cells, 2018, 177, 120-127. | 6.2 | 30 |
| 8 | Poly(3,4-alkylenedioxythiophenes): PXDOTs electrochromic polymers as gasochromic materials. Solar Energy Materials and Solar Cells, 2018, 187, 30-38. | 6.2 | 10 |
| 9 | A new type of gasochromic material: conducting polymers with catalytic nanoparticles. Chemical Communications, 2017, 53, 3242-3245. | 4.1 | 33 |
| 10 | Low-temperature chemical fabrication of Pt-WO 3 gasochromic switchable films using UV irradiation. Solar Energy Materials and Solar Cells, 2017, 170, 21-26. | 6.2 | 30 |
| 11 | Fabrication of nickel oxyhydroxide/palladium (NiOOH/Pd) thin films for gasochromic application. Journal of Materials Chemistry C, 2016, 4, 5390-5397. | 5.5 | 36 |
| 12 | Improving the optical properties of switchable mirrors based on Mgâ€“Y alloy using antireflection coatings. Solar Energy Materials and Solar Cells, 2015, 141, 337-340. | 6.2 | 14 |
| 13 | Pd distribution of switchable mirrors based on Mgâ€“Y alloy thin films. Solar Energy Materials and Solar Cells, 2014, 120, 631-634. | 6.2 | 11 |
| 14 | Optical indices of switchable mirrors based on Mgâ€“Y alloy thin films in the transparent state. Thin Solid Films, 2014, 571, 712-714. | 1.8 | 4 |
| 15 | Influence on optical properties and switching durability by introducing Ta intermediate layer in Mgâ€“Y switchable mirrors. Solar Energy Materials and Solar Cells, 2014, 125, 133-137. | 6.2 | 17 |
| 16 | Film thickness change of switchable mirrors using Mg3Y alloy thin films due to hydrogenation and dehydrogenation. Solar Energy Materials and Solar Cells, 2014, 126, 237-240. | 6.2 | 14 |
| 17 | Switchable mirror glass with a Mgâ€“Zrâ€“Ni ternary alloy thin film. Solar Energy Materials and Solar Cells, 2014, 126, 227-236. | 6.2 | 12 |
| 18 | Optical switching durability of switchable mirrors based on magnesiumâ€“yttrium alloy thin films. Solar Energy Materials and Solar Cells, 2013, 117, 396-399. | 6.2 | 29 |

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|---|---|---|---|
| 19 | Si incorporated diamond-like carbon film-coated electrochromic switchable mirror glass for high environmental durability. Ceramics International, 2013, 39, 8273-8278. | 4.8 | 3 |
| 20 | Improved durability of electrochromic switchable mirror with surface coating in environment. Vacuum, 2013, 87, 155-159. | 3.5 | 7 |
| 21 | Development of switchable mirror glass. Synthesiology, 2013, 5, 262-269. | 0.2 | 1 |
| 22 | Electrochromic switchable mirror glass with controllable reflectance. Applied Physics Letters, 2012, 100, . | 3.3 | 10 |
| 23 | Solution-Based Electrolyte Layer Suitable for Electrochromic Switchable Mirror. Applied Physics Express, 2012, 5, 084101. | 2.4 | 9 |
| 24 | Composition Dependence of Pd–Ag Alloy Proton Injection Layer on Optical Switching Properties of Electrochromic Switchable Mirror. Materials Transactions, 2012, 53, 676-680. | 1.2 | 0 |
| 25 | Electrochromic switchable mirror glass fabricated using adhesive electrolyte layer. Applied Physics Letters, 2012, 101, . | 3.3 | 10 |
| 26 | Environmental durability of electrochromic switchable mirror glass at sub-zero temperature. Solar Energy Materials and Solar Cells, 2012, 104, 146-151. | 6.2 | 10 |
| 27 | Switchable mirror based on Mgâ€“Zrâ€“H thin films. Journal of Alloys and Compounds, 2012, 513, 495-498. | 5.5 | 14 |
| 28 | Dehydrogenation process of Mgâ€“Ni based switchable mirrors analyzed by in situ spectroscopic ellipsometry. Solar Energy Materials and Solar Cells, 2012, 99, 84-87. | 6.2 | 3 |
| 29 | Optical switching properties of switchable mirrors based on Mg alloyed with alkaline-earth metals. Solar Energy Materials and Solar Cells, 2012, 99, 73-75. | 6.2 | 19 |
| 30 | Accelerated test on electrochromic switchable mirror based on magnesium alloy thin film in simulated environment of various relative humidities. Solar Energy Materials and Solar Cells, 2012, 99, 76-83. | 6.2 | 6 |
| 31 | Development of switchable mirror glass. Synthesiology, 2012, 5, 253-260. | 0.2 | 1 |
| 32 | Ellipsometric study of dielectric functions of Mg_1âˆ'yCa_yH_x thin films (003â‰yâ‰017). Applied Optics, 2011, 50, 3879. | 2.1 | 1 |
| 33 | Improvement of Durability of Electrochromic Switchable Mirror in Environment. Transactions of the Materials Research Society of Japan, 2011, 36, 245-247. | 0.2 | 0 |
| 34 | Fabrication of solid electrolyte Ta2O5 thin film by reactive dc magnetron sputtering suitable for electrochromic all-solid-state switchable mirror glass. Journal of the Ceramic Society of Japan, 2011, 119, 76-80. | 1.1 | 9 |
| 35 | Structural control of polyvinyl chloride sealant layer for electrochromic switchable mirror glass based on Mg-Ni thin film. Journal of the Ceramic Society of Japan, 2011, 119, 295-302. | 1.1 | 1 |
| 36 | Surface Analysis of Electrochromic Switchable Mirror Glass Based on Magnesium-Nickel Thin Film in Accelerated Degradation Test. Materials Transactions, 2011, 52, 464-468. | 1.2 | 4 |

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|---|---|---|---|
| 37 | Mgâ€“Ni thin-film composition dependence of durability of electrochromic switchable mirror glass in simulated environment. Solar Energy Materials and Solar Cells, 2011, 95, 3370-3376. | 6.2 | 10 |
| 38 | Polyvinyl chloride seal layer for improving the durability of electrochromic switchable mirrors based on Mgâ€“Ni thin film. Thin Solid Films, 2011, 519, 8114-8118. | 1.8 | 6 |
| 39 | Electrochromic switchable mirror foil with tantalum oxide thin film prepared by reactive DC magnetron sputtering in hydrogen-containing gas. Surface and Coatings Technology, 2011, 205, 3956-3960. | 4.8 | 7 |
| 40 | Ellipsometric study of optical switching processes of Mgâ€“Ni based switchable mirrors. Thin Solid Films, 2011, 519, 2941-2945. | 1.8 | 6 |
| 41 | Degradation Analysis of Electrochromic Switchable Mirror Glass Based on Mgâ€“Ni Thin Film at Constant Temperature and Relative Humidity. Japanese Journal of Applied Physics, 2011, 50, 105801. | 1.5 | 1 |
| 42 | Degradation Analysis of Electrochromic Switchable Mirror Glass Based on Mgâ€“Ni Thin Film at Constant Temperature and Relative Humidity. Japanese Journal of Applied Physics, 2011, 50, 105801. | 1.5 | 2 |
| 43 | Surface Coating of Electrochromic Switchable Mirror Glass Based on Mgâ€“Ni Thin Film for High Durability in the Environment. Applied Physics Express, 2010, 3, 042201. | 2.4 | 17 |
| 44 | èª¿å…‰ãƒŸãƒ©ãƒ¼ã®é–‹ç™º. Electrochemistry, 2010, 78, 627. | 1.4 | 0 |
| 45 | Degradation studies of electrochromic all-solid-state switchable mirror glass under various constant temperature and relative humidity conditions. Solar Energy Materials and Solar Cells, 2010, 94, 2411-2415. | 6.2 | 8 |
| 46 | Fabrication study of proton injection layer suitable for electrochromic switchable mirror glass. Thin Solid Films, 2010, 519, 934-937. | 1.8 | 11 |
| 47 | Optical switching properties of all-solid-state switchable mirror glass based on magnesiumâ€“nickel thin film for environmental temperature. Solar Energy Materials and Solar Cells, 2010, 94, 227-231. | 6.2 | 15 |
| 48 | Accelerated degradation studies on electrochromic switchable mirror glass based on magnesiumâ€“nickel thin film in simulated environment. Solar Energy Materials and Solar Cells, 2010, 94, 1716-1722. | 6.2 | 25 |
| 49 | Characterization of flexible switchable mirror film prepared by DC magnetron sputtering. Vacuum, 2010, 84, 1460-1465. | 3.5 | 10 |
| 50 | In situ spectroscopic ellipsometry study of the hydrogenation process of switchable mirrors based on magnesium-nickel alloy thin films. Journal of Applied Physics, 2010, 107, 043517. | 2.5 | 12 |
| 51 | Stress in Switchable Mirror Thin Film Resulting from Gasochromic Switching. Japanese Journal of Applied Physics, 2010, 49, 075701. | 1.5 | 8 |
| 52 | Tantalum Oxide Thin Film Prepared by Reactive Sputtering Using Hydrogen-Containing Gas for Electrochromic Switchable Mirror. Journal of the Electrochemical Society, 2010, 157, J92. | 2.9 | 11 |
| 53 | Optical properties of switchable mirrors based on magnesium-calcium alloy thin films. Applied Physics Letters, 2009, 94, . | 3.3 | 32 |
| 54 | Real time characterization of hydrogenation mechanism of palladium thin films by <i>in situ</i> spectroscopic ellipsometry. Journal of Applied Physics, 2009, 106, . | 2.5 | 15 |

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| 55 | Analysis of Degradation of Flexible All-Solid-State Switchable Mirror Based on Mgâ€“Ni Thin Film. Japanese Journal of Applied Physics, 2009, 48, 102402. | 1.5 | 10 |
| 56 | Optical charge transfer absorption in proton injected tungsten oxide thin films analyzed with spectroscopic ellipsometry. Solid State Ionics, 2009, 180, 659-661. | 2.7 | 7 |
| 57 | Hydrogenation and dehydrogenation processes of palladium thin films measured in situ by spectroscopic ellipsometry. Solar Energy Materials and Solar Cells, 2009, 93, 2143-2147. | 6.2 | 12 |
| 58 | Preparation and characterization of gasochromic switchable-mirror window with practical size. Solar Energy Materials and Solar Cells, 2009, 93, 2138-2142. | 6.2 | 40 |
| 59 | Optical property and cycling durability of polytetrafluoroethylene top-covered and metal buffer layer inserted Mgâ€“Ni switchable mirror. Solar Energy Materials and Solar Cells, 2009, 93, 1642-1646. | 6.2 | 19 |
| 60 | Clear transparency all-solid-state switchable mirror with Mgâ€“Ti thin film on polymer sheet. Solar Energy Materials and Solar Cells, 2009, 93, 2083-2087. | 6.2 | 12 |
| 61 | Electrochemical evaluation of Ta2O5 thin film for all-solid-state switchable mirror glass. Solid State Ionics, 2009, 180, 654-658. | 2.7 | 33 |
| 62 | Solid electrolyte of tantalum oxide thin film deposited by reactive DC and RF magnetron sputtering for all-solid-state switchable mirror glass. Solar Energy Materials and Solar Cells, 2008, 92, 120-125. | 6.2 | 31 |
| 63 | Metal buffer layer inserted switchable mirrors. Solar Energy Materials and Solar Cells, 2008, 92, 216-223. | 6.2 | 20 |
| 64 | Magnesiumâ€“titanium alloy thin-film switchable mirrors. Solar Energy Materials and Solar Cells, 2008, 92, 224-227. | 6.2 | 40 |
| 65 | All-solid-state switchable mirror on flexible sheet. Surface and Coatings Technology, 2008, 202, 5633-5636. | 4.8 | 13 |
| 66 | Effect of deposition conditions on the response and durability of an Mg4Ni film switchable mirror. Vacuum, 2008, 83, 486-489. | 3.5 | 6 |
| 67 | Reactive DC sputter-deposited tantalum oxide thin film for all-solid-state switchable mirror. Vacuum, 2008, 83, 602-605. | 3.5 | 3 |
| 68 | Antidazzle effect of switchable mirrors prepared on substrates with rough surface. Solar Energy Materials and Solar Cells, 2008, 92, 1617-1620. | 6.2 | 7 |
| 69 | Improved Durability of All-Solid-State Switchable Mirror Based on Magnesiumâ€“Nickel Thin Film Using Aluminum Buffer Layer. Journal of the Electrochemical Society, 2008, 155, J278. | 2.9 | 3 |
| 70 | Gasochromic Properties of Mgâ€“Ni Switchable Mirror Thin Films on Flexible Sheets. Japanese Journal of Applied Physics, 2008, 47, 7993. | 1.5 | 1 |
| 71 | Optical properties of tungsten oxide thin films with protons intercalated during sputtering. Journal of Applied Physics, 2008, 103, 063508. | 2.5 | 9 |
| 72 | Flexible all-solid-state switchable mirror on plastic sheet. Applied Physics Letters, 2008, 92, 041912. | 3.3 | 44 |

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| 73 | Proton conductive tantalum oxide thin film deposited by reactive DC magnetron sputtering for all-solid-state switchable mirror. Journal of Physics: Conference Series, 2008, 100, 082017. | 0.4 | 9 |
| 74 | Near colorless all-solid-state switchable mirror based on magnesium-titanium thin film. Journal of Applied Physics, 2008, 103, . | 2.5 | 32 |
| 75 | Polytetrafluoroethylene (PTFE) Top-Covered Mg-Ni Switchable Mirror Thin Films. Materials Transactions, 2008, 49, 1919-1921. | 1.2 | 13 |
| 76 | Optical properties and degradation mechanism of magnesium-niobium thin film switchable mirrors. Journal of the Ceramic Society of Japan, 2008, 116, 771-775. | 1.1 | 9 |
| 77 | Electrochromic Properties of Pd-capped Mg-Ni Switchable Mirror Thin Films. Electrochemistry, 2008, 76, 282-287. | 1.4 | 2 |
| 78 | High Durability of Clear Transparency All-Solid-State Switchable Mirror Based on Magnesiumâ€"Titanium Thin Film. Applied Physics Express, 2008, 1, 067007. | 2.4 | 6 |
| 79 | Degradation of Switchable Mirror Based on Mgâ€"Ni Alloy Thin Film. Japanese Journal of Applied Physics, 2007, 46, 4260-4264. | 1.5 | 32 |
| 80 | New Switchable Mirror Based on Magnesiumâ€"Niobium Thin Film. Japanese Journal of Applied Physics, 2007, 46, L13-L15. | 1.5 | 16 |
| 81 | Effective Density of Tantalum Oxide Thin Film by Reactive DC Magnetron Sputtering for All-Solid-State Switchable Mirror. Journal of the Electrochemical Society, 2007, 154, J267. | 2.9 | 19 |
| 82 | Aluminum buffer layer for high durability of all-solid-state switchable mirror based on magnesium-nickel thin film. Applied Physics Letters, 2007, 91, . | 3.3 | 43 |
| 83 | Toward Solid-State Switchable Mirror Devices Using Magnesium-Rich Magnesiumâ€"Nickel Alloy Thin Films. Japanese Journal of Applied Physics, 2007, 46, 5168-5171. | 1.5 | 47 |
| 84 | Durability of All-Solid-State Switchable Mirror Based on Magnesiumâ€"Nickel Thin Film. Electrochemical and Solid-State Letters, 2007, 10, J52. | 2.2 | 30 |
| 85 | Estimation of the amount of the proton injected into tungsten oxide thin films during deposition using spectroscopic ellipsometry. Thin Solid Films, 2007, 515, 3825-3829. | 1.8 | 3 |
| 86 | Color-neutral switchable mirrors based on magnesium-titanium thin films. Applied Physics A: Materials Science and Processing, 2007, 87, 621-624. | 2.3 | 56 |
| 87 | The effect of polymer coatings on switching behavior and cycling durability of Pd/Mgâ€"Ni thin films. Applied Surface Science, 2007, 253, 6268-6272. | 6.1 | 27 |
| 88 | Optical switching property of Pd-capped Mgâ€"Ni alloy thin films prepared by magnetron sputtering. Vacuum, 2006, 80, 684-687. | 3.5 | 67 |
| 89 | Titanium-Buffer-Layer-Inserted Switchable Mirror Based on Mg-Ni Alloy Thin Film. Japanese Journal of Applied Physics, 2006, 45, L588-L590. | 1.5 | 33 |
| 90 | Room-Temperature Hydrogen Sensor Based on Pd-Capped Mg2Ni Thin Film. Japanese Journal of Applied Physics, 2004, 43, L507-L509. | 1.5 | 21 |

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| 91 | The Curie temperature dependence on preparation conditions for Gd thin films. Thin Solid Films, 2004, 459, 191-194. | 1.8 | 9 |
| 92 | Hydrogenation of Pd capped Mg thin films at room temperature. Surface Science, 2004, 566-568, 751-754. | 1.9 | 76 |
| 93 | Optical switching of Mg-rich Mgâ€“Ni alloy thin films. Applied Physics Letters, 2002, 81, 4709-4711. | 3.3 | 158 |
| 94 | Pinning effect of a LaFeO3 buffer layer on the magnetization of a La1âˆ’xPbxMnO3 layer. Applied Physics Letters, 2002, 80, 1409-1411. | 3.3 | 8 |
| 95 | Curie temperature control of La1âˆ’xPbxMnO3âˆ’y thin film by changing the pulsed laser deposition conditions. Thin Solid Films, 2000, 375, 1-4. | 1.8 | 7 |
| 96 | Microstructure of Fe/Cu (Au) artificial superlattice. Thin Solid Films, 1998, 318, 180-185. | 1.8 | 1 |
| 97 | Scanning Tunneling Microscopy in Liquid on Geometrical Study of Cu(001) Surface. Japanese Journal of Applied Physics, 1995, 34, 6210-6213. | 1.5 | 1 |