Yasusei Yamada

List of Publications by Year
in descending order

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	Optical switching of Mg-rich Mgâ€“Ni alloy thin films. Applied Physics Letters, 2002, 81, 4709-4711.	3.3	158
2	Hydrogenation of Pd capped Mg thin films at room temperature. Surface Science, 2004, 566-568, 751-754.	1.9	76
3	Optical switching property of Pd-capped Mgâ€“Ni alloy thin films prepared by magnetron sputtering. Vacuum, 2006, 80, 684-687.	3.5	67
4	Color-neutral switchable mirrors based on magnesium-titanium thin films. Applied Physics A: Materials Science and Processing, 2007, 87, 621-624.	2.3	56
5	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
6	Flexible all-solid-state switchable mirror on plastic sheet. Applied Physics Letters, 2008, 92, 041912.	3.3	44
7	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
8	Magnesiumâ€“titanium alloy thin-film switchable mirrors. Solar Energy Materials and Solar Cells, 2008, 92, 224-227.	6.2	40
9	Preparation and characterization of gasochromic switchable-mirror window with practical size. Solar Energy Materials and Solar Cells, 2009, 93, 2138-2142.	6.2	40
10	Fabrication of nickel oxyhydroxide/palladium (NiOOH/Pd) thin films for gasochromic application. Journal of Materials Chemistry C, 2016, 4, 5390-5397.	5.5	36
11	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
12	Electrochemical evaluation of Ta2O5 thin film for all-solid-state switchable mirror glass. Solid State Ionics, 2009, 180, 654-658.	2.7	33
13	A new type of gasochromic material: conducting polymers with catalytic nanoparticles. Chemical Communications, 2017, 53, 3242-3245.	4.1	33
14	Degradation of Switchable Mirror Based on Mgâ€“Ni Alloy Thin Film. Japanese Journal of Applied Physics, 2007, 46, 4260-4264.	1.5	32
15	Near colorless all-solid-state switchable mirror based on magnesium-titanium thin film. Journal of Applied Physics, 2008, 103, .	2.5	32
16	Optical properties of switchable mirrors based on magnesium-calcium alloy thin films. Applied Physics Letters, 2009, 94, .	3.3	32
17	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
18	Durability of All-Solid-State Switchable Mirror Based on Magnesiumâ€“Nickel Thin Film. Electrochemical and Solid-State Letters, 2007, 10, J52.	2.2	30

#	ARTICLE	IF	CITATIONS
19	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
20	Fabrication of nickel oxyhydroxide/palladium (NiOOH/Pd) nanocomposite for gasochromic application. Solar Energy Materials and Solar Cells, 2018, 177, 120-127.	6.2	30
21	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
22	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
23	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
24	Room-Temperature Hydrogen Sensor Based on Pd-Capped Mg2Ni Thin Film. Japanese Journal of Applied Physics, 2004, 43, L507-L509.	1.5	21
25	Metal buffer layer inserted switchable mirrors. Solar Energy Materials and Solar Cells, 2008, 92, 216-223.	6.2	20
26	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
27	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
28	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
29	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
30	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
31	New Switchable Mirror Based on Magnesiumâ€“Niobium Thin Film. Japanese Journal of Applied Physics, 2007, 46, L13-L15.	1.5	16
32	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
33	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
34	Switchable mirror based on Mgâ€“Zrâ€“H thin films. Journal of Alloys and Compounds, 2012, 513, 495-498.	5.5	14
35	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
36	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

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37	All-solid-state switchable mirror on flexible sheet. Surface and Coatings Technology, 2008, 202, 5633-5636.	4.8	13
38	Polytetrafluoroethylene (PTFE) Top-Covered Mg-Ni Switchable Mirror Thin Films. Materials Transactions, 2008, 49, 1919-1921.	1.2	13
39	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
40	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
41	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
42	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
43	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
44	Fabrication study of proton injection layer suitable for electrochromic switchable mirror glass. Thin Solid Films, 2010, 519, 934-937.	1.8	11
45	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
46	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
47	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
48	Characterization of flexible switchable mirror film prepared by DC magnetron sputtering. Vacuum, 2010, 84, 1460-1465.	3.5	10
49	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
50	Electrochromic switchable mirror glass with controllable reflectance. Applied Physics Letters, 2012, 100, .	3.3	10
51	Electrochromic switchable mirror glass fabricated using adhesive electrolyte layer. Applied Physics Letters, 2012, 101, .	3.3	10
52	Environmental durability of electrochromic switchable mirror glass at sub-zero temperature. Solar Energy Materials and Solar Cells, 2012, 104, 146-151.	6.2	10
53	Poly(3,4-alkylenedioxythiophenes): PXDOTs electrochromic polymers as gasochromic materials. Solar Energy Materials and Solar Cells, 2018, 187, 30-38.	6.2	10
54	The Curie temperature dependence on preparation conditions for Gd thin films. Thin Solid Films, 2004, 459, 191-194.	1.8	9

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55	Optical properties of tungsten oxide thin films with protons intercalated during sputtering. Journal of Applied Physics, 2008, 103, 063508.	2.5	9
56	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
57	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
58	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
59	Solution-Based Electrolyte Layer Suitable for Electrochromic Switchable Mirror. Applied Physics Express, 2012, 5, 084101.	2.4	9
60	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
61	Pinning effect of a LaFeO3 buffer layer on the magnetization of a La1â^'xPbxMnO3 layer. Applied Physics Letters, 2002, 80, 1409-1411.	3.3	8
62	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
63	Stress in Switchable Mirror Thin Film Resulting from Gasochromic Switching. Japanese Journal of Applied Physics, 2010, 49, 075701.	1.5	8
64	Curie temperature control of La1â^'xPbxMnO3â^'y thin film by changing the pulsed laser deposition conditions. Thin Solid Films, 2000, 375, 1-4.	1.8	7
65	Antidazzle effect of switchable mirrors prepared on substrates with rough surface. Solar Energy Materials and Solar Cells, 2008, 92, 1617-1620.	6.2	7
66	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
67	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
68	Improved durability of electrochromic switchable mirror with surface coating in environment. Vacuum, 2013, 87, 155-159.	3.5	7
69	Effect of deposition conditions on the response and durability of an Mg4Ni film switchable mirror. Vacuum, 2008, 83, 486-489.	3.5	6
70	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
71	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
72	Ellipsometric study of optical switching processes of Mgâ€"Ni based switchable mirrors. Thin Solid Films, 2011, 519, 2941-2945.	1.8	6

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73	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
74	Roll-to-roll production of Prussian blue/Pt nanocomposite films for flexible gasochromic applications. Inorganica Chimica Acta, 2020, 505, 119466.	2.4	5
75	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
76	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
77	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
78	Reactive DC sputter-deposited tantalum oxide thin film for all-solid-state switchable mirror. Vacuum, 2008, 83, 602-605.	3.5	3
79	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
80	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
81	Si incorporated diamond-like carbon film-coated electrochromic switchable mirror glass for high environmental durability. Ceramics International, 2013, 39, 8273-8278.	4.8	3
82	Ellipsometric study of the electronic behaviors of titanium-vanadium dioxide (Ti<i>x</i>V1â^'<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
83	Electrochromic Properties of Pd-capped Mg-Ni Switchable Mirror Thin Films. Electrochemistry, 2008, 76, 282-287.	1.4	2
84	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
85	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
86	Scanning Tunneling Microscopy in Liquid on Geometrical Study of Cu(001) Surface. Japanese Journal of Applied Physics, 1995, 34, 6210-6213.	1.5	1
87	Microstructure of Fe/Cu (Au) artificial superlattice. Thin Solid Films, 1998, 318, 180-185.	1.8	1
88	Gasochromic Properties of Mgâ€"Ni Switchable Mirror Thin Films on Flexible Sheets. Japanese Journal of Applied Physics, 2008, 47, 7993.	1.5	1
89	Ellipsometric study of dielectric functions of Mg_1â^'yCa_yH_x thin films (003â‰yâ‰017). Applied Optics, 2011, 50, 3879.	2.1	1
90	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

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91	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
92	Development of switchable mirror glass. Synthesiology, 2013, 5, 262-269.	0.2	1
93	Gas and humidity analyses in gasochromic processes of switchable mirrors. Solar Energy Materials and Solar Cells, 2021, 233, 111389.	6.2	1
94	Development of switchable mirror glass. Synthesiology, 2012, 5, 253-260.	0.2	1
95	èª¿å…‰ãƒŸãƒ©ãƒ¼ã®é–‹ç™º. Electrochemistry, 2010, 78, 627.	1.4	0
96	Improvement of Durability of Electrochromic Switchable Mirror in Environment. Transactions of the Materials Research Society of Japan, 2011, 36, 245-247.	0.2	0
97	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