

KAZUKI TAJIMA

List of Publications by Year in descending order

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113
papers

1,779
citations

279798

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113
docs citations

113
times ranked

1212
citing authors

#	ARTICLE	IF	CITATIONS
1	An rRNA-based analysis for evaluating the effect of heat stress on the rumen microbial composition of Holstein heifers. <i>Anaerobe</i> , 2010, 16, 27-33.	2.1	85
2	Planar catalytic combustor film for thermoelectric hydrogen sensor. <i>Sensors and Actuators B: Chemical</i> , 2005, 108, 455-460.	7.8	75
3	Color-neutral switchable mirrors based on magnesium-titanium thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2007, 87, 621-624.	2.3	56
4	Toward Solid-State Switchable Mirror Devices Using Magnesium-Rich Magnesium-Nickel Alloy Thin Films. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 5168-5171.	1.5	47
5	Flexible all-solid-state switchable mirror on plastic sheet. <i>Applied Physics Letters</i> , 2008, 92, 041912.	3.3	44
6	Aluminum buffer layer for high durability of all-solid-state switchable mirror based on magnesium-nickel thin film. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	43
7	Thermoelectric Properties of RF-Sputtered SiGe Thin Film for Hydrogen Gas Sensor. <i>Japanese Journal of Applied Physics</i> , 2004, 43, 5978-5983.	1.5	42
8	Magnesium-titanium alloy thin-film switchable mirrors. <i>Solar Energy Materials and Solar Cells</i> , 2008, 92, 224-227.	6.2	40
9	Preparation and characterization of gasochromic switchable-mirror window with practical size. <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 2138-2142.	6.2	40
10	New Structural Design of Micro-Thermoelectric Sensor for Wide Range Hydrogen Detection. <i>Journal of the Ceramic Society of Japan</i> , 2006, 114, 853-856.	1.3	39
11	Combustor of ceramic Pt/alumina catalyst and its application for micro-thermoelectric hydrogen sensor. <i>Applied Catalysis A: General</i> , 2005, 287, 19-24.	4.3	33
12	Electrochemical evaluation of Ta ₂ O ₅ thin film for all-solid-state switchable mirror glass. <i>Solid State Ionics</i> , 2009, 180, 654-658.	2.7	33
13	Degradation of Switchable Mirror Based on Mg-Ni Alloy Thin Film. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 4260-4264.	1.5	32
14	Near colorless all-solid-state switchable mirror based on magnesium-titanium thin film. <i>Journal of Applied Physics</i> , 2008, 103, .	2.5	32
15	Optical properties of switchable mirrors based on magnesium-calcium alloy thin films. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	32
16	Solid electrolyte of tantalum oxide thin film deposited by reactive DC and RF magnetron sputtering for all-solid-state switchable mirror glass. <i>Solar Energy Materials and Solar Cells</i> , 2008, 92, 120-125.	6.2	31
17	Durability of All-Solid-State Switchable Mirror Based on Magnesium-Nickel Thin Film. <i>Electrochemical and Solid-State Letters</i> , 2007, 10, J52.	2.2	30
18	Optical switching durability of switchable mirrors based on magnesium-yttrium alloy thin films. <i>Solar Energy Materials and Solar Cells</i> , 2013, 117, 396-399.	6.2	29

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19	Solid/electrolyte interface phenomena during anodic polarization of Pd _{0.2} M _{0.8} (M=Fe, Co, Ni) alloys in H ₂ SO ₄ . <i>Journal of Alloys and Compounds</i> , 2010, 494, 309-314.	5.5	28
20	Micromechanical fabrication of low-power thermoelectric hydrogen sensor. <i>Sensors and Actuators B: Chemical</i> , 2005, 108, 973-978.	7.8	27
21	Long-term stability of Pt/alumina catalyst combustors for micro-gas sensor application. <i>Journal of the European Ceramic Society</i> , 2008, 28, 2183-2190.	5.7	25
22	Accelerated degradation studies on electrochromic switchable mirror glass based on magnesium-nickel thin film in simulated environment. <i>Solar Energy Materials and Solar Cells</i> , 2010, 94, 1716-1722.	6.2	25
23	Electrochemical stability of self-assembled monolayers on nanoporous Au. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 12277.	2.8	24
24	Anatase formation on titanium by two-step thermal oxidation. <i>Journal of Materials Science</i> , 2011, 46, 2998-3005.	3.7	24
25	Thermopile sensor-devices for the catalytic detection of hydrogen gas. <i>Sensors and Actuators B: Chemical</i> , 2008, 130, 200-206.	7.8	23
26	Integration of ceramic catalyst on micro-thermoelectric gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2006, 118, 283-291.	7.8	22
27	Effect of Pt/alumina catalyst preparation method on sensing performance of thermoelectric hydrogen sensor. <i>Journal of Materials Science</i> , 2006, 41, 2333-2338.	3.7	21
28	Micro-thermoelectric devices with ceramic combustors. <i>Sensors and Actuators A: Physical</i> , 2006, 130-131, 411-418.	4.1	20
29	Metal buffer layer inserted switchable mirrors. <i>Solar Energy Materials and Solar Cells</i> , 2008, 92, 216-223.	6.2	20
30	Cobalt hexacyanoferrate nanoparticles for wet-processed brown-bleached electrochromic devices with hybridization of high-spin/low-spin phases. <i>Journal of Materials Chemistry C</i> , 2017, 5, 8921-8926.	5.5	20
31	Green fabrication of a complementary electrochromic device using water-based ink containing nanoparticles of WO ₃ and Prussian blue. <i>RSC Advances</i> , 2020, 10, 2562-2565.	3.6	20
32	Effective Density of Tantalum Oxide Thin Film by Reactive DC Magnetron Sputtering for All-Solid-State Switchable Mirror. <i>Journal of the Electrochemical Society</i> , 2007, 154, J267.	2.9	19
33	Optical property and cycling durability of polytetrafluoroethylene top-covered and metal buffer layer inserted Mg-Ni switchable mirror. <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 1642-1646.	6.2	19
34	Optical switching properties of switchable mirrors based on Mg alloyed with alkaline-earth metals. <i>Solar Energy Materials and Solar Cells</i> , 2012, 99, 73-75.	6.2	19
35	Flexible electrochromic devices based on tungsten oxide and Prussian blue nanoparticles for automobile applications. <i>RSC Advances</i> , 2021, 11, 28614-28620.	3.6	18
36	Surface Coating of Electrochromic Switchable Mirror Glass Based on Mg-Ni Thin Film for High Durability in the Environment. <i>Applied Physics Express</i> , 2010, 3, 042201.	2.4	17

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37	Influence on optical properties and switching durability by introducing Ta intermediate layer in Mg ϵ Y switchable mirrors. <i>Solar Energy Materials and Solar Cells</i> , 2014, 125, 133-137.	6.2	17
38	New Switchable Mirror Based on Magnesium ϵ Niobium Thin Film. <i>Japanese Journal of Applied Physics</i> , 2007, 46, L13-L15.	1.5	16
39	FeNi-Layered Double-Hydroxide Nanoflakes with Potential for Intrinsically High Water-Oxidation Catalytic Activity. <i>ACS Applied Energy Materials</i> , 2020, 3, 9040-9050.	5.1	16
40	Mass-producible slit coating for large-area electrochromic devices. <i>Solar Energy Materials and Solar Cells</i> , 2021, 232, 111361.	6.2	16
41	Complementary electrochromic devices based on acrylic substrates for smart window applications in aircrafts. <i>Materials Chemistry and Physics</i> , 2022, 277, 125460.	4.0	16
42	Real time characterization of hydrogenation mechanism of palladium thin films by <i>in situ</i> spectroscopic ellipsometry. <i>Journal of Applied Physics</i> , 2009, 106, .	2.5	15
43	Optical switching properties of all-solid-state switchable mirror glass based on magnesium ϵ nickel thin film for environmental temperature. <i>Solar Energy Materials and Solar Cells</i> , 2010, 94, 227-231.	6.2	15
44	Effects of the variation of metal substitution and electrolyte on the electrochemical reaction of metal hexacyanoferrates. <i>RSC Advances</i> , 2018, 8, 37356-37364.	3.6	15
45	Thermoelectric Gas Sensor using Au Loaded Titania CO Oxidation Catalyst. <i>Journal of the Ceramic Society of Japan</i> , 2007, 115, 37-41.	1.3	14
46	Switchable mirror based on Mg ϵ Zr ϵ H thin films. <i>Journal of Alloys and Compounds</i> , 2012, 513, 495-498.	5.5	14
47	Formation of Anatase on Commercially Pure Ti by Two-Step Thermal Oxidation Using N ϵ CO Gas. <i>Materials Transactions</i> , 2013, 54, 1302-1307.	1.2	14
48	Film thickness change of switchable mirrors using Mg ϵ Y alloy thin films due to hydrogenation and dehydrogenation. <i>Solar Energy Materials and Solar Cells</i> , 2014, 126, 237-240.	6.2	14
49	Adhesive electrochromic WO ϵ thin films fabricated using a WO ϵ nanoparticle-based ink. <i>Electrochimica Acta</i> , 2021, 389, 138764.	5.2	14
50	All-solid-state switchable mirror on flexible sheet. <i>Surface and Coatings Technology</i> , 2008, 202, 5633-5636.	4.8	13
51	Polytetrafluoroethylene (PTFE) Top-Covered Mg-Ni Switchable Mirror Thin Films. <i>Materials Transactions</i> , 2008, 49, 1919-1921.	1.2	13
52	Micromachined Thermoelectric Hydrogen Sensor of Double-Membrane Structure. <i>Japanese Journal of Applied Physics</i> , 2005, 44, L367-L370.	1.5	12
53	Hydrogenation and dehydrogenation processes of palladium thin films measured <i>in situ</i> by spectroscopic ellipsometry. <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 2143-2147.	6.2	12
54	Clear transparency all-solid-state switchable mirror with Mg ϵ Ti thin film on polymer sheet. <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 2083-2087.	6.2	12

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55	In situ spectroscopic ellipsometry study of the hydrogenation process of switchable mirrors based on magnesium-nickel alloy thin films. <i>Journal of Applied Physics</i> , 2010, 107, 043517.	2.5	12
56	Switchable mirror glass with a Mg ²⁺ -Zr ⁴⁺ -Ni ternary alloy thin film. <i>Solar Energy Materials and Solar Cells</i> , 2014, 126, 227-236.	6.2	12
57	Fabrication study of proton injection layer suitable for electrochromic switchable mirror glass. <i>Thin Solid Films</i> , 2010, 519, 934-937.	1.8	11
58	Tantalum Oxide Thin Film Prepared by Reactive Sputtering Using Hydrogen-Containing Gas for Electrochromic Switchable Mirror. <i>Journal of the Electrochemical Society</i> , 2010, 157, J92.	2.9	11
59	Pd distribution of switchable mirrors based on Mg ²⁺ -Y alloy thin films. <i>Solar Energy Materials and Solar Cells</i> , 2014, 120, 631-634.	6.2	11
60	Catalyst Combustors with B-Doped SiGe/Au Thermopile for Micro-Power-Generation. <i>Japanese Journal of Applied Physics</i> , 2006, 45, L1130-L1132.	1.5	10
61	Analysis of Degradation of Flexible All-Solid-State Switchable Mirror Based on Mg ²⁺ -Ni Thin Film. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 102402.	1.5	10
62	Characterization of flexible switchable mirror film prepared by DC magnetron sputtering. <i>Vacuum</i> , 2010, 84, 1460-1465.	3.5	10
63	Mg ²⁺ -Ni thin-film composition dependence of durability of electrochromic switchable mirror glass in simulated environment. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 3370-3376.	6.2	10
64	Electrochromic switchable mirror glass with controllable reflectance. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	10
65	Electrochromic switchable mirror glass fabricated using adhesive electrolyte layer. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	10
66	Environmental durability of electrochromic switchable mirror glass at sub-zero temperature. <i>Solar Energy Materials and Solar Cells</i> , 2012, 104, 146-151.	6.2	10
67	Photocatalytic performance of very thin TiO ₂ /SnO ₂ stacked-film prepared by magnetron sputtering. <i>Vacuum</i> , 2008, 83, 688-690.	3.5	9
68	Optical properties of tungsten oxide thin films with protons intercalated during sputtering. <i>Journal of Applied Physics</i> , 2008, 103, 063508.	2.5	9
69	Proton conductive tantalum oxide thin film deposited by reactive DC magnetron sputtering for all-solid-state switchable mirror. <i>Journal of Physics: Conference Series</i> , 2008, 100, 082017.	0.4	9
70	Optical properties and degradation mechanism of magnesium-niobium thin film switchable mirrors. <i>Journal of the Ceramic Society of Japan</i> , 2008, 116, 771-775.	1.1	9
71	Fabrication of solid electrolyte Ta ₂ O ₅ thin film by reactive dc magnetron sputtering suitable for electrochromic all-solid-state switchable mirror glass. <i>Journal of the Ceramic Society of Japan</i> , 2011, 119, 76-80.	1.1	9
72	Solution-Based Electrolyte Layer Suitable for Electrochromic Switchable Mirror. <i>Applied Physics Express</i> , 2012, 5, 084101.	2.4	9

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73	High contrast gasochromism of wet processable thin film with chromic and catalytic nanoparticles. <i>Journal of Materials Chemistry C</i> , 2018, 6, 4760-4764.	5.5	9
74	Electrochromic properties of sputter-deposited rhodium oxide thin films of varying thickness. <i>Thin Solid Films</i> , 2020, 709, 138226.	1.8	9
75	Practical Test Methods for Hydrogen Gas Sensor Response Characterization. <i>Electrochemistry</i> , 2006, 74, 315-320.	1.4	8
76	Degradation studies of electrochromic all-solid-state switchable mirror glass under various constant temperature and relative humidity conditions. <i>Solar Energy Materials and Solar Cells</i> , 2010, 94, 2411-2415.	6.2	8
77	Stress in Switchable Mirror Thin Film Resulting from Gasochromic Switching. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 075701.	1.5	8
78	Preparation of Phosphorus-Doped Si _{0.8} Ge _{0.2} Thermoelectric Thin Film Using RF Sputtering with Induction Coil. <i>Journal of the Ceramic Society of Japan</i> , 2005, 113, 558-561.	1.3	7
79	Micro-Thermoelectric Hydrogen Sensors with Pt Thin Film and Pt-Alumina Thick Film Catalysts. <i>Journal of the Electrochemical Society</i> , 2006, 153, H58.	2.9	7
80	Boron-Doped Si _{0.8} Ge _{0.2} Thin Film Deposited by Helicon Sputtering for Microthermoelectric Hydrogen Sensor. <i>Journal of the Electrochemical Society</i> , 2007, 154, J53.	2.9	7
81	Control of the concentration of protons intercalated into tungsten oxide thin films during deposition. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 1105-1108.	0.8	7
82	Antidazzle effect of switchable mirrors prepared on substrates with rough surface. <i>Solar Energy Materials and Solar Cells</i> , 2008, 92, 1617-1620.	6.2	7
83	Optical charge transfer absorption in proton injected tungsten oxide thin films analyzed with spectroscopic ellipsometry. <i>Solid State Ionics</i> , 2009, 180, 659-661.	2.7	7
84	Electrochromic switchable mirror foil with tantalum oxide thin film prepared by reactive DC magnetron sputtering in hydrogen-containing gas. <i>Surface and Coatings Technology</i> , 2011, 205, 3956-3960.	4.8	7
85	Improved durability of electrochromic switchable mirror with surface coating in environment. <i>Vacuum</i> , 2013, 87, 155-159.	3.5	7
86	B- and P-Doped Si _{0.8} Ge _{0.2} Thin Film Deposited by Helicon Sputtering for the Micro-Thermoelectric Gas Sensor. <i>Key Engineering Materials</i> , 2006, 320, 99-102.	0.4	6
87	Effect of deposition conditions on the response and durability of an Mg ₄ Ni film switchable mirror. <i>Vacuum</i> , 2008, 83, 486-489.	3.5	6
88	High Durability of Clear Transparency All-Solid-State Switchable Mirror Based on Magnesium-Titanium Thin Film. <i>Applied Physics Express</i> , 2008, 1, 067007.	2.4	6
89	Polyvinyl chloride seal layer for improving the durability of electrochromic switchable mirrors based on Mg-Ni thin film. <i>Thin Solid Films</i> , 2011, 519, 8114-8118.	1.8	6
90	Ellipsometric study of optical switching processes of Mg-Ni based switchable mirrors. <i>Thin Solid Films</i> , 2011, 519, 2941-2945.	1.8	6

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91	Accelerated test on electrochromic switchable mirror based on magnesium alloy thin film in simulated environment of various relative humidities. <i>Solar Energy Materials and Solar Cells</i> , 2012, 99, 76-83.	6.2	6
92	Activity of Ga ₂ O ₃ in B ₂ O ₃ Flux and Standard Free Energies of Formation of GaBO ₃ and InBO ₃ . <i>Materials Transactions, JIM</i> , 2000, 41, 714-718.	0.9	5
93	Thermoelectric Hydrogen Sensor Based on SiGe Thin Film. <i>Key Engineering Materials</i> , 2004, 269, 117-120.	0.4	5
94	Preparation of Micro-Thermoelectric Hydrogen Sensor Loading Two Kinds of Catalysts to Enhance Gas Selectivity. <i>Journal of the Ceramic Society of Japan</i> , 2007, 115, 748-750.	1.1	5
95	Self-Organized Formation of Short TiO ₂ Nanotube Arrays By Complete Anodization of Ti Thin Films. <i>Physics Procedia</i> , 2012, 32, 714-718.	1.2	5
96	Surface Analysis of Electrochromic Switchable Mirror Glass Based on Magnesium-Nickel Thin Film in Accelerated Degradation Test. <i>Materials Transactions</i> , 2011, 52, 464-468.	1.2	4
97	Optical indices of switchable mirrors based on Mg ^Y alloy thin films in the transparent state. <i>Thin Solid Films</i> , 2014, 571, 712-714.	1.8	4
98	Microfabrication of Thermoelectric Hydrogen Sensor Using KOH Solution Etching. <i>Key Engineering Materials</i> , 2006, 301, 273-276.	0.4	3
99	Reactive DC sputter-deposited tantalum oxide thin film for all-solid-state switchable mirror. <i>Vacuum</i> , 2008, 83, 602-605.	3.5	3
100	Improved Durability of All-Solid-State Switchable Mirror Based on Magnesium ^{Ni} Nickel Thin Film Using Aluminum Buffer Layer. <i>Journal of the Electrochemical Society</i> , 2008, 155, J278.	2.9	3
101	Dehydrogenation process of Mg ^{Ni} based switchable mirrors analyzed by in situ spectroscopic ellipsometry. <i>Solar Energy Materials and Solar Cells</i> , 2012, 99, 84-87.	6.2	3
102	Si incorporated diamond-like carbon film-coated electrochromic switchable mirror glass for high environmental durability. <i>Ceramics International</i> , 2013, 39, 8273-8278.	4.8	3
103	Boron and Nitrogen in GaAs and InP Melts Equilibrated with B ₂ O ₃ Flux. <i>Materials Transactions</i> , 2004, 45, 1306-1310.	1.2	2
104	Behavior of Oxygen in Ga-As Melts with the Range of As Content up to 5 mass% Equilibrated with B ₂ O ₃ Flux. <i>Materials Transactions</i> , 2001, 42, 2434-2439.	1.2	1
105	Pt Loaded Alumina Ceramic Catalysts for Micro Thermoelectric Hydrogen Sensors. <i>Journal of the Ceramic Society of Japan</i> , 2006, 114, 686-691.	1.3	1
106	Gasochromic Properties of Mg ^{Ni} Switchable Mirror Thin Films on Flexible Sheets. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 7993.	1.5	1
107	Ellipsometric study of dielectric functions of Mg _{1-y} Ca _y H _x thin films (003 ⁰¹⁷). <i>Applied Optics</i> , 2011, 50, 3879.	2.1	1
108	Structural control of polyvinyl chloride sealant layer for electrochromic switchable mirror glass based on Mg-Ni thin film. <i>Journal of the Ceramic Society of Japan</i> , 2011, 119, 295-302.	1.1	1

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109	Degradation Analysis of Electrochromic Switchable Mirror Glass Based on Mg-Ni Thin Film at Constant Temperature and Relative Humidity. Japanese Journal of Applied Physics, 2011, 50, 105801.	1.5	1
110	Controllable light filters using an all-solid-state switchable mirror with a Mg-Ir thin film for preterm infant incubators. Applied Physics Letters, 2013, 102, 161913.	3.3	1
111	Micro-Thermoelectric Hydrogen Sensor of Three Different Membrane Structures. Japanese Journal of Applied Physics, 2006, 45, 6186-6191.	1.5	0
112	Integration of Ceramic Catalyst on Micro-Hotplate of Thermoelectric Hydrogen Sensor. Key Engineering Materials, 2006, 301, 277-280.	0.4	0
113	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