KAZUKI TAJIMA

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113 papers	1,469 citations	21 h-index	30 g-index
113 ext. papers	1,602 ext. citations	3.7 avg, IF	4.22 L-index

#	Paper	IF	Citations
113	Planar catalytic combustor film for thermoelectric hydrogen sensor. *Sensors and Actuators B: Chemical*, **2005**, 108, 455-460	8.5	64
112	An rRNA-based analysis for evaluating the effect of heat stress on the rumen microbial composition of Holstein heifers. *Anaerobe*, **2010**, 16, 27-33	2.8	56
111	Color-neutral switchable mirrors based on magnesium-titanium thin films. *Applied Physics A: Materials Science and Processing*, **2007**, 87, 621-624	2.6	52
110	Toward Solid-State Switchable Mirror Devices Using Magnesium-Rich Magnesium□Nickel Alloy Thin Films. *Japanese Journal of Applied Physics*, **2007**, 46, 5168-5171	1.4	41
109	Flexible all-solid-state switchable mirror on plastic sheet. *Applied Physics Letters*, **2008**, 92, 041912	3.4	40
108	Thermoelectric Properties of RF-Sputtered SiGe Thin Film for Hydrogen Gas Sensor. *Japanese Journal of Applied Physics*, **2004**, 43, 5978-5983	1.4	39
107	Preparation and characterization of gasochromic switchable-mirror window with practical size. *Solar Energy Materials and Solar Cells*, **2009**, 93, 2138-2142	6.4	38
106	Aluminum buffer layer for high durability of all-solid-state switchable mirror based on magnesium-nickel thin film. *Applied Physics Letters*, **2007**, 91, 051908	3.4	37
105	Magnesium□titanium alloy thin-film switchable mirrors. *Solar Energy Materials and Solar Cells*, **2008**, 92, 224-227	6.4	35
104	Near colorless all-solid-state switchable mirror based on magnesium-titanium thin film. *Journal of Applied Physics*, **2008**, 103, 013512	2.5	32
103	Electrochemical evaluation of Ta2O5 thin film for all-solid-state switchable mirror glass. *Solid State Ionics*, **2009**, 180, 654-658	3.3	30
102	Degradation of Switchable Mirror Based on Mg□Ni Alloy Thin Film. *Japanese Journal of Applied Physics*, **2007**, 46, 4260-4264	1.4	30
101	New Structural Design of Micro-Thermoelectric Sensor for Wide Range Hydrogen Detection. *Journal of the Ceramic Society of Japan*, **2006**, 114, 853-856		30
100	Durability of All-Solid-State Switchable Mirror Based on Magnesium□Nickel Thin Film. *Electrochemical and Solid-State Letters*, **2007**, 10, J52		29
99	Combustor of ceramic Pt/alumina catalyst and its application for micro-thermoelectric hydrogen sensor. *Applied Catalysis A: General*, **2005**, 287, 19-24	5.1	29
98	Optical properties of switchable mirrors based on magnesium-calcium alloy thin films. *Applied Physics Letters*, **2009**, 94, 191910	3.4	27
97	Solid/electrolyte interface phenomena during anodic polarization of Pd0.2M0.8 (M=Fe, Co, Ni) alloys in H2SO4. *Journal of Alloys and Compounds*, **2010**, 494, 309-314	5.7	26

96	Optical switching durability of switchable mirrors based on magnesium–yttrium alloy thin films. *Solar Energy Materials and Solar Cells*, **2013**, 117, 396-399	6.4	25
95	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	6.4	24
94	Anatase formation on titanium by two-step thermal oxidation. *Journal of Materials Science*, **2011**, 46, 2998-3005	4.3	23
93	Long-term stability of Pt/alumina catalyst combustors for micro-gas sensor application. *Journal of the European Ceramic Society*, **2008**, 28, 2183-2190	6	22
92	Accelerated degradation studies on electrochromic switchable mirror glass based on magnesium–nickel thin film in simulated environment. *Solar Energy Materials and Solar Cells*, **2010**, 94, 1716-1722	6.4	21
91	Micromechanical fabrication of low-power thermoelectric hydrogen sensor. *Sensors and Actuators B: Chemical*, **2005**, 108, 973-978	8.5	21
90	Electrochemical stability of self-assembled monolayers on nanoporous Au. *Physical Chemistry Chemical Physics*, **2011**, 13, 12277-84	3.6	20
89	Optical property and cycling durability of polytetrafluoroethylene top-covered and metal buffer layer inserted Mg–Ni switchable mirror. *Solar Energy Materials and Solar Cells*, **2009**, 93, 1642-1646	6.4	19
88	Thermopile sensor-devices for the catalytic detection of hydrogen gas. *Sensors and Actuators B: Chemical*, **2008**, 130, 200-206	8.5	19
87	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	3.9	17
86	Integration of ceramic catalyst on micro-thermoelectric gas sensor. *Sensors and Actuators B: Chemical*, **2006**, 118, 283-291	8.5	17
85	Influence on optical properties and switching durability by introducing Ta intermediate layer in Mg–Y switchable mirrors. *Solar Energy Materials and Solar Cells*, **2014**, 125, 133-137	6.4	16
84	Optical switching properties of switchable mirrors based on Mg alloyed with alkaline-earth metals. *Solar Energy Materials and Solar Cells*, **2012**, 99, 73-75	6.4	16
83	New Switchable Mirror Based on Magnesium–Niobium Thin Film. *Japanese Journal of Applied Physics*, **2007**, 46, L13-L15	1.4	16
82	Effect of Pt/alumina catalyst preparation method on sensing performance of thermoelectric hydrogen sensor. *Journal of Materials Science*, **2006**, 41, 2333-2338	4.3	16
81	Surface Coating of Electrochromic Switchable Mirror Glass Based on Mg–Ni Thin Film for High Durability in the Environment. *Applied Physics Express*, **2010**, 3, 042201	2.4	15
80	Metal buffer layer inserted switchable mirrors. *Solar Energy Materials and Solar Cells*, **2008**, 92, 216-223	6.4	15
79	Micro-thermoelectric devices with ceramic combustors. *Sensors and Actuators A: Physical*, **2006**, 130-131, 411-418	3.9	15

78	Optical switching properties of all-solid-state switchable mirror glass based on magnesium–nickel thin film for environmental temperature. *Solar Energy Materials and Solar Cells*, **2010**, 94, 227-231	6.4	14
77	Cobalt hexacyanoferrate nanoparticles for wet-processed bromine-bleached electrochromic devices with hybridization of high-spin/low-spin phases. *Journal of Materials Chemistry C*, **2017**, 5, 8921-8926	7.1	13
76	Switchable mirror based on Mg–Zr–H thin films. *Journal of Alloys and Compounds*, **2012**, 513, 495-498	5.7	12
75	Formation of Anatase on Commercially Pure Ti by Two-Step Thermal Oxidation Using N2–CO Gas. *Materials Transactions*, **2013**, 54, 1302-1307	1.3	12
74	Real time characterization of hydrogenation mechanism of palladium thin films by in situ spectroscopic ellipsometry. *Journal of Applied Physics*, **2009**, 106, 013523	2.5	12
73	Switchable mirror glass with a Mg–Zr–Ni ternary alloy thin film. *Solar Energy Materials and Solar Cells*, **2014**, 126, 227-236	6.4	11
72	Pd distribution of switchable mirrors based on Mg–Y alloy thin films. *Solar Energy Materials and Solar Cells*, **2014**, 120, 631-634	6.4	11
71	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	11
70	Tantalum Oxide Thin Film Prepared by Reactive Sputtering Using Hydrogen-Containing Gas for Electrochromic Switchable Mirror. *Journal of the Electrochemical Society*, **2010**, 157, J92	3.9	11
69	Polytetrafluoroethylene (PTFE) Top-Covered Mg-Ni Switchable Mirror Thin Films. *Materials Transactions*, **2008**, 49, 1919-1921	1.3	11
68	All-solid-state switchable mirror on flexible sheet. *Surface and Coatings Technology*, **2008**, 202, 5633-5636	4.4	11
67	Thermoelectric Gas Sensor using Au Loaded Titania CO Oxidation Catalyst. *Journal of the Ceramic Society of Japan*, **2007**, 115, 37-41		11
66	Mg–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	6.4	10
65	Analysis of Degradation of Flexible All-Solid-State Switchable Mirror Based on Mg–Ni Thin Film. *Japanese Journal of Applied Physics*, **2009**, 48, 102402	1.4	10
64	Hydrogenation and dehydrogenation processes of palladium thin films measured in situ by spectroscopic ellipsometry. *Solar Energy Materials and Solar Cells*, **2009**, 93, 2143-2147	6.4	10
63	Clear transparency all-solid-state switchable mirror with Mg–Ti thin film on polymer sheet. *Solar Energy Materials and Solar Cells*, **2009**, 93, 2083-2087	6.4	10
62	Electrochromic switchable mirror glass with controllable reflectance. *Applied Physics Letters*, **2012**, 100, 091906	3.4	10
61	Effects of the variation of metal substitution and electrolyte on the electrochemical reaction of metal hexacyanoferrates.. *RSC Advances*, **2018**, 8, 37356-37364	3.7	10

60	Green fabrication of a complementary electrochromic device using water-based ink containing nanoparticles of WO and Prussian blue.. *RSC Advances*, **2020**, 10, 2562-2565	3.7	9
59	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	6.4	9
58	Electrochromic switchable mirror glass fabricated using adhesive electrolyte layer. *Applied Physics Letters*, **2012**, 101, 251907	3.4	9
57	Solution-Based Electrolyte Layer Suitable for Electrochromic Switchable Mirror. *Applied Physics Express*, **2012**, 5, 084101	2.4	9
56	Fabrication study of proton injection layer suitable for electrochromic switchable mirror glass. *Thin Solid Films*, **2010**, 519, 934-937	2.2	9
55	Characterization of flexible switchable mirror film prepared by DC magnetron sputtering. *Vacuum*, **2010**, 84, 1460-1465	3.7	9
54	Photocatalytic performance of very thin TiO2/SnO2 stacked-film prepared by magnetron sputtering. *Vacuum*, **2008**, 83, 688-690	3.7	9
53	Micromachined Thermoelectric Hydrogen Sensor of Double-Membrane Structure. *Japanese Journal of Applied Physics*, **2005**, 44, L367-L370	1.4	9
52	Environmental durability of electrochromic switchable mirror glass at sub-zero temperature. *Solar Energy Materials and Solar Cells*, **2012**, 104, 146-151	6.4	8
51	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	8
50	Stress in Switchable Mirror Thin Film Resulting from Gasochromic Switching. *Japanese Journal of Applied Physics*, **2010**, 49, 075701	1.4	8
49	Optical properties of tungsten oxide thin films with protons intercalated during sputtering. *Journal of Applied Physics*, **2008**, 103, 063508	2.5	8
48	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	0.3	8
47	Catalyst Combustors with B-Doped SiGe/Au Thermopile for Micro-Power-Generation. *Japanese Journal of Applied Physics*, **2006**, 45, L1130-L1132	1.4	8
46	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	2.4	7
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	6.4	7
44	Optical properties and degradation mechanism of magnesium-niobium thin film switchable mirrors. *Journal of the Ceramic Society of Japan*, **2008**, 116, 771-775	1	7
43	Micro-Thermoelectric Hydrogen Sensors with Pt Thin Film and Pt/Alumina Thick Film Catalysts. *Journal of the Electrochemical Society*, **2006**, 153, H58	3.9	7

42	Boron-Doped Si[sub 0.8]Ge[sub 0.2] Thin Film Deposited by Helicon Sputtering for Microthermoelectric Hydrogen Sensor. *Journal of the Electrochemical Society*, **2007**, 154, J53	3.9	7
41	Practical Test Methods for Hydrogen Gas Sensor Response Characterization. *Electrochemistry*, **2006**, 74, 315-320	1.2	7
40	Preparation of Phosphorus-Doped Si0.8Ge0.2 Thermoelectric Thin Film Using RF Sputtering with Induction Coil. *Journal of the Ceramic Society of Japan*, **2005**, 113, 558-561		7
39	High contrast gasochromism of wet processable thin film with chromic and catalytic nanoparticles. *Journal of Materials Chemistry C*, **2018**, 6, 4760-4764	7.1	6
38	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	6.4	6
37	Improved durability of electrochromic switchable mirror with surface coating in environment. *Vacuum*, **2013**, 87, 155-159	3.7	6
36	Optical charge transfer absorption in proton injected tungsten oxide thin films analyzed with spectroscopic ellipsometry. *Solid State Ionics*, **2009**, 180, 659-661	3.3	6
35	Ellipsometric study of optical switching processes of Mg□Ni based switchable mirrors. *Thin Solid Films*, **2011**, 519, 2941-2945	2.2	6
34	High Durability of Clear Transparency All-Solid-State Switchable Mirror Based on Magnesium□Titanium Thin Film. *Applied Physics Express*, **2008**, 1, 067007	2.4	6
33	Control of the concentration of protons intercalated into tungsten oxide thin films during deposition. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2008**, 5, 1105-1108		6
32	FeNi-Layered Double-Hydroxide Nanoflakes with Potential for Intrinsically High Water-Oxidation Catalytic Activity. *ACS Applied Energy Materials*, **2020**, 3, 9040-9050	6.1	6
31	Self-Organized Formation of Short TiO2 Nanotube Arrays By Complete Anodization of Ti Thin Films. *Physics Procedia*, **2012**, 32, 714-718		5
30	Polyvinyl chloride seal layer for improving the durability of electrochromic switchable mirrors based on Mg□Ni thin film. *Thin Solid Films*, **2011**, 519, 8114-8118	2.2	5
29	Antidazzle effect of switchable mirrors prepared on substrates with rough surface. *Solar Energy Materials and Solar Cells*, **2008**, 92, 1617-1620	6.4	5
28	Effect of deposition conditions on the response and durability of an Mg4Ni film switchable mirror. *Vacuum*, **2008**, 83, 486-489	3.7	5
27	Thermoelectric Hydrogen Sensor Based on SiGe Thin Film. *Key Engineering Materials*, **2004**, 269, 117-120	0.4	5
26	Activity of Ga2O3 in B2O3 Flux and Standard Free Energies of Formation of GaBO3 and InBO3. *Materials Transactions, JIM*, **2000**, 41, 714-718		5
25	Optical indices of switchable mirrors based on Mg□ alloy thin films in the transparent state. *Thin Solid Films*, **2014**, 571, 712-714	2.2	4

24	Surface Analysis of Electrochromic Switchable Mirror Glass Based on Magnesium-Nickel Thin Film in Accelerated Degradation Test. *Materials Transactions*, **2011**, 52, 464-468	1.3	4
23	B- and P-Doped Si0.8Ge0.2 Thin Film Deposited by Helicon Sputtering for the Micro-Thermoelectric Gas Sensor. *Key Engineering Materials*, **2006**, 320, 99-102	0.4	4
22	Electrochromic properties of sputter-deposited rhodium oxide thin films of varying thickness. *Thin Solid Films*, **2020**, 709, 138226	2.2	4
21	Adhesive electrochromic WO3 thin films fabricated using a WO3 nanoparticle-based ink. *Electrochimica Acta*, **2021**, 389, 138764	6.7	4
20	Si incorporated diamond-like carbon film-coated electrochromic switchable mirror glass for high environmental durability. *Ceramics International*, **2013**, 39, 8273-8278	5.1	3
19	Improved Durability of All-Solid-State Switchable Mirror Based on Magnesium□Nickel Thin Film Using Aluminum Buffer Layer. *Journal of the Electrochemical Society*, **2008**, 155, J278	3.9	3
18	Reactive DC sputter-deposited tantalum oxide thin film for all-solid-state switchable mirror. *Vacuum*, **2008**, 83, 602-605	3.7	3
17	Complementary electrochromic devices based on acrylic substrates for smart window applications in aircrafts. *Materials Chemistry and Physics*, **2022**, 277, 125460	4.4	3
16	Dehydrogenation process of Mg□Ni based switchable mirrors analyzed by in situ spectroscopic ellipsometry. *Solar Energy Materials and Solar Cells*, **2012**, 99, 84-87	6.4	2
15	Microfabrication of Thermoelectric Hydrogen Sensor Using KOH Solution Etching. *Key Engineering Materials*, **2006**, 301, 273-276	0.4	2
14	Preparation of Micro-Thermoelectric Hydrogen Sensor Loading Two Kinds of Catalysts to Enhance Gas Selectivity. *Journal of the Ceramic Society of Japan*, **2007**, 115, 748-750	1	2
13	Boron and Nitrogen in GaAs and InP Melts Equilibrated with B2O3 Flux. *Materials Transactions*, **2004**, 45, 1306-1310	1.3	2
12	Flexible electrochromic devices based on tungsten oxide and Prussian blue nanoparticles for automobile applications.. *RSC Advances*, **2021**, 11, 28614-28620	3.7	2
11	Mass-producible slit coating for large-area electrochromic devices. *Solar Energy Materials and Solar Cells*, **2021**, 232, 111361	6.4	2
10	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	3.4	1
9	Ellipsometric study of dielectric functions of Mg(1-y)Ca(y)H(x) thin films (0.03≦y≦0.17). *Applied Optics*, **2011**, 50, 3879-84	0.2	1
8	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
7	Gasochromic Properties of Mg□Ni Switchable Mirror Thin Films on Flexible Sheets. *Japanese Journal of Applied Physics*, **2008**, 47, 7993-7997	1.4	1

6	Pt Loaded Alumina Ceramic Catalysts for Micro Thermoelectric Hydrogen Sensors. *Journal of the Ceramic Society of Japan*, **2006**, 114, 686-691		1
5	Behavior of Oxygen in Ga-As Melts with the Range of As Content up to 5 mass% Equilibrated with B2O3 Flux. *Materials Transactions*, **2001**, 42, 2434-2439	1.3	1
4	Degradation Analysis of Electrochromic Switchable Mirror Glass Based on MgNi Thin Film at Constant Temperature and Relative Humidity. *Japanese Journal of Applied Physics*, **2011**, 50, 105801	1.4	
3	Composition Dependence of Pd–Ag Alloy Proton Injection Layer on Optical Switching Properties of Electrochromic Switchable Mirror. *Materials Transactions*, **2012**, 53, 676-680	1.3	
2	Micro-Thermoelectric Hydrogen Sensor of Three Different Membrane Structures. *Japanese Journal of Applied Physics*, **2006**, 45, 6186-6191	1.4	
1	Integration of Ceramic Catalyst on Micro-Hotplate of Thermoelectric Hydrogen Sensor. *Key Engineering Materials*, **2006**, 301, 277-280	0.4	