

KAZUKI TAJIMA

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Complementary electrochromic devices based on acrylic substrates for smart window applications in aircrafts. <i>Materials Chemistry and Physics</i> , 2022 , 277, 125460	4.4	3
112	Flexible electrochromic devices based on tungsten oxide and Prussian blue nanoparticles for automobile applications.. <i>RSC Advances</i> , 2021 , 11, 28614-28620	3.7	2
111	Adhesive electrochromic WO ₃ thin films fabricated using a WO ₃ nanoparticle-based ink. <i>Electrochimica Acta</i> , 2021 , 389, 138764	6.7	4
110	Mass-producible slit coating for large-area electrochromic devices. <i>Solar Energy Materials and Solar Cells</i> , 2021 , 232, 111361	6.4	2
109	Green fabrication of a complementary electrochromic device using water-based ink containing nanoparticles of WO and Prussian blue.. <i>RSC Advances</i> , 2020 , 10, 2562-2565	3.7	9
108	Electrochromic properties of sputter-deposited rhodium oxide thin films of varying thickness. <i>Thin Solid Films</i> , 2020 , 709, 138226	2.2	4
107	FeNi-Layered Double-Hydroxide Nanoflakes with Potential for Intrinsically High Water-Oxidation Catalytic Activity. <i>ACS Applied Energy Materials</i> , 2020 , 3, 9040-9050	6.1	6
106	High contrast gasochromism of wet processable thin film with chromic and catalytic nanoparticles. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 4760-4764	7.1	6
105	Effects of the variation of metal substitution and electrolyte on the electrochemical reaction of metal hexacyanoferrates.. <i>RSC Advances</i> , 2018 , 8, 37356-37364	3.7	10
104	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	7.1	13
103	Influence on optical properties and switching durability by introducing Ta intermediate layer in Mg ₃ Y switchable mirrors. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 125, 133-137	6.4	16
102	Film thickness change of switchable mirrors using Mg ₃ Y alloy thin films due to hydrogenation and dehydrogenation. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 126, 237-240	6.4	9
101	Switchable mirror glass with a Mg ₃ ZrNi ternary alloy thin film. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 126, 227-236	6.4	11
100	Pd distribution of switchable mirrors based on Mg ₃ Y alloy thin films. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 120, 631-634	6.4	11
99	Optical indices of switchable mirrors based on Mg ₃ Y alloy thin films in the transparent state. <i>Thin Solid Films</i> , 2014 , 571, 712-714	2.2	4
98	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	6.4	25
97	Si incorporated diamond-like carbon film-coated electrochromic switchable mirror glass for high environmental durability. <i>Ceramics International</i> , 2013 , 39, 8273-8278	5.1	3

96	Improved durability of electrochromic switchable mirror with surface coating in environment. <i>Vacuum</i> , 2013 , 87, 155-159	3.7	6
95	Controllable light filters using an all-solid-state switchable mirror with a Mg-Ir thin film for preterm infant incubators. <i>Applied Physics Letters</i> , 2013 , 102, 161913	3.4	1
94	Formation of Anatase on Commercially Pure Ti by Two-Step Thermal Oxidation Using N ₂ –CO Gas. <i>Materials Transactions</i> , 2013 , 54, 1302-1307	1.3	12
93	Dehydrogenation process of Mg ₉₀ Ni based switchable mirrors analyzed by in situ spectroscopic ellipsometry. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 99, 84-87	6.4	2
92	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	6.4	16
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	6.4	6
90	Electrochromic switchable mirror glass fabricated using adhesive electrolyte layer. <i>Applied Physics Letters</i> , 2012 , 101, 251907	3.4	9
89	Self-Organized Formation of Short TiO ₂ Nanotube Arrays By Complete Anodization of Ti Thin Films. <i>Physics Procedia</i> , 2012 , 32, 714-718		5
88	Environmental durability of electrochromic switchable mirror glass at sub-zero temperature. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 104, 146-151	6.4	8
87	Switchable mirror based on Mg ₉₀ Zr ₁₀ thin films. <i>Journal of Alloys and Compounds</i> , 2012 , 513, 495-498	5.7	12
86	Electrochromic switchable mirror glass with controllable reflectance. <i>Applied Physics Letters</i> , 2012 , 100, 091906	3.4	10
85	Solution-Based Electrolyte Layer Suitable for Electrochromic Switchable Mirror. <i>Applied Physics Express</i> , 2012 , 5, 084101	2.4	9
84	Composition Dependence of Pd–Ag Alloy Proton Injection Layer on Optical Switching Properties of Electrochromic Switchable Mirror. <i>Materials Transactions</i> , 2012 , 53, 676-680	1.3	
83	Ellipsometric study of dielectric functions of Mg _(1-y) Ca _(y) H _(x) thin films (0.03$y$$x$0.17). <i>Applied Optics</i> , 2011 , 50, 3879-84	0.2	1
82	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	8
81	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
80	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	1.3	4
79	Mg ₉₀ 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	6.4	10

78	Polyvinyl chloride seal layer for improving the durability of electrochromic switchable mirrors based on MgNi thin film. <i>Thin Solid Films</i> , 2011 , 519, 8114-8118	2.2	5
77	Anatase formation on titanium by two-step thermal oxidation. <i>Journal of Materials Science</i> , 2011 , 46, 2998-3005	4.3	23
76	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	4.4	7
75	Electrochemical stability of self-assembled monolayers on nanoporous Au. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 12277-84	3.6	20
74	Ellipsometric study of optical switching processes of MgNi based switchable mirrors. <i>Thin Solid Films</i> , 2011 , 519, 2941-2945	2.2	6
73	Degradation Analysis of Electrochromic Switchable Mirror Glass Based on MgNi Thin Film at Constant Temperature and Relative Humidity. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 105801	1.4	
72	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	11
71	Stress in Switchable Mirror Thin Film Resulting from Gasochromic Switching. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 075701	1.4	8
70	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	3.9	11
69	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	5.7	26
68	Surface Coating of Electrochromic Switchable Mirror Glass Based on MgNi Thin Film for High Durability in the Environment. <i>Applied Physics Express</i> , 2010 , 3, 042201	2.4	15
67	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	6.4	7
66	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	2.8	56
65	Fabrication study of proton injection layer suitable for electrochromic switchable mirror glass. <i>Thin Solid Films</i> , 2010 , 519, 934-937	2.2	9
64	Optical switching properties of all-solid-state switchable mirror glass based on magnesium-nickel thin film for environmental temperature. <i>Solar Energy Materials and Solar Cells</i> , 2010 , 94, 227-231	6.4	14
63	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	6.4	21
62	Characterization of flexible switchable mirror film prepared by DC magnetron sputtering. <i>Vacuum</i> , 2010 , 84, 1460-1465	3.7	9
61	Optical properties of switchable mirrors based on magnesium-calcium alloy thin films. <i>Applied Physics Letters</i> , 2009 , 94, 191910	3.4	27

60	Real time characterization of hydrogenation mechanism of palladium thin films by in situ spectroscopic ellipsometry. <i>Journal of Applied Physics</i> , 2009 , 106, 013523	2.5	12
59	Analysis of Degradation of Flexible All-Solid-State Switchable Mirror Based on MgNi Thin Film. <i>Japanese Journal of Applied Physics</i> , 2009 , 48, 102402	1.4	10
58	Optical charge transfer absorption in proton injected tungsten oxide thin films analyzed with spectroscopic ellipsometry. <i>Solid State Ionics</i> , 2009 , 180, 659-661	3.3	6
57	Hydrogenation and dehydrogenation processes of palladium thin films measured in situ by spectroscopic ellipsometry. <i>Solar Energy Materials and Solar Cells</i> , 2009 , 93, 2143-2147	6.4	10
56	Preparation and characterization of gasochromic switchable-mirror window with practical size. <i>Solar Energy Materials and Solar Cells</i> , 2009 , 93, 2138-2142	6.4	38
55	Optical property and cycling durability of polytetrafluoroethylene top-covered and metal buffer layer inserted MgNi switchable mirror. <i>Solar Energy Materials and Solar Cells</i> , 2009 , 93, 1642-1646	6.4	19
54	Clear transparency all-solid-state switchable mirror with MgNi thin film on polymer sheet. <i>Solar Energy Materials and Solar Cells</i> , 2009 , 93, 2083-2087	6.4	10
53	Electrochemical evaluation of Ta2O5 thin film for all-solid-state switchable mirror glass. <i>Solid State Ionics</i> , 2009 , 180, 654-658	3.3	30
52	Antidazzle effect of switchable mirrors prepared on substrates with rough surface. <i>Solar Energy Materials and Solar Cells</i> , 2008 , 92, 1617-1620	6.4	5
51	Improved Durability of All-Solid-State Switchable Mirror Based on MagnesiumNickel Thin Film Using Aluminum Buffer Layer. <i>Journal of the Electrochemical Society</i> , 2008 , 155, J278	3.9	3
50	Gasochromic Properties of MgNi Switchable Mirror Thin Films on Flexible Sheets. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 7993-7997	1.4	1
49	Optical properties of tungsten oxide thin films with protons intercalated during sputtering. <i>Journal of Applied Physics</i> , 2008 , 103, 063508	2.5	8
48	Flexible all-solid-state switchable mirror on plastic sheet. <i>Applied Physics Letters</i> , 2008 , 92, 041912	3.4	40
47	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	0.3	8
46	Near colorless all-solid-state switchable mirror based on magnesium-titanium thin film. <i>Journal of Applied Physics</i> , 2008 , 103, 013512	2.5	32
45	Polytetrafluoroethylene (PTFE) Top-Covered Mg-Ni Switchable Mirror Thin Films. <i>Materials Transactions</i> , 2008 , 49, 1919-1921	1.3	11
44	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	7
43	High Durability of Clear Transparency All-Solid-State Switchable Mirror Based on MagnesiumTitanium Thin Film. <i>Applied Physics Express</i> , 2008 , 1, 067007	2.4	6

42	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		6
41	Thermopile sensor-devices for the catalytic detection of hydrogen gas. <i>Sensors and Actuators B: Chemical</i> , 2008 , 130, 200-206	8.5	19
40	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	6	22
39	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	6.4	24
38	Metal buffer layer inserted switchable mirrors. <i>Solar Energy Materials and Solar Cells</i> , 2008 , 92, 216-223	6.4	15
37	Magnesium-titanium alloy thin-film switchable mirrors. <i>Solar Energy Materials and Solar Cells</i> , 2008 , 92, 224-227	6.4	35
36	All-solid-state switchable mirror on flexible sheet. <i>Surface and Coatings Technology</i> , 2008 , 202, 5633-5636	6.4	11
35	Effect of deposition conditions on the response and durability of an Mg ₄ Ni film switchable mirror. <i>Vacuum</i> , 2008 , 83, 486-489	3.7	5
34	Reactive DC sputter-deposited tantalum oxide thin film for all-solid-state switchable mirror. <i>Vacuum</i> , 2008 , 83, 602-605	3.7	3
33	Photocatalytic performance of very thin TiO ₂ /SnO ₂ stacked-film prepared by magnetron sputtering. <i>Vacuum</i> , 2008 , 83, 688-690	3.7	9
32	Durability of All-Solid-State Switchable Mirror Based on Magnesium-Nickel Thin Film. <i>Electrochemical and Solid-State Letters</i> , 2007 , 10, J52		29
31	Color-neutral switchable mirrors based on magnesium-titanium thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2007 , 87, 621-624	2.6	52
30	Degradation of Switchable Mirror Based on Mg-Ni Alloy Thin Film. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, 4260-4264	1.4	30
29	New Switchable Mirror Based on Magnesium-Niobium Thin Film. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, L13-L15	1.4	16
28	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	3.9	17
27	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, 051908	3.4	37
26	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	1.4	41
25	Thermoelectric Gas Sensor using Au Loaded Titania CO Oxidation Catalyst. <i>Journal of the Ceramic Society of Japan</i> , 2007 , 115, 37-41		11

24	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	2
23	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	3.9	7
22	Catalyst Combustors with B-Doped SiGe/Au Thermopile for Micro-Power-Generation. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, L1130-L1132	1.4	8
21	Micro-Thermoelectric Hydrogen Sensor of Three Different Membrane Structures. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 6186-6191	1.4	
20	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	4
19	Integration of Ceramic Catalyst on Micro-Hotplate of Thermoelectric Hydrogen Sensor. <i>Key Engineering Materials</i> , 2006 , 301, 277-280	0.4	
18	Microfabrication of Thermoelectric Hydrogen Sensor Using KOH Solution Etching. <i>Key Engineering Materials</i> , 2006 , 301, 273-276	0.4	2
17	Micro-Thermoelectric Hydrogen Sensors with Pt Thin Film and Pt/Alumina Thick Film Catalysts. <i>Journal of the Electrochemical Society</i> , 2006 , 153, H58	3.9	7
16	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		30
15	Practical Test Methods for Hydrogen Gas Sensor Response Characterization. <i>Electrochemistry</i> , 2006 , 74, 315-320	1.2	7
14	Pt Loaded Alumina Ceramic Catalysts for Micro Thermoelectric Hydrogen Sensors. <i>Journal of the Ceramic Society of Japan</i> , 2006 , 114, 686-691		1
13	Micro-thermoelectric devices with ceramic combustors. <i>Sensors and Actuators A: Physical</i> , 2006 , 130-131, 411-418	3.9	15
12	Integration of ceramic catalyst on micro-thermoelectric gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2006 , 118, 283-291	8.5	17
11	Effect of Pt/alumina catalyst preparation method on sensing performance of thermoelectric hydrogen sensor. <i>Journal of Materials Science</i> , 2006 , 41, 2333-2338	4.3	16
10	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		7
9	Micromechanical fabrication of low-power thermoelectric hydrogen sensor. <i>Sensors and Actuators B: Chemical</i> , 2005 , 108, 973-978	8.5	21
8	Planar catalytic combustor film for thermoelectric hydrogen sensor. <i>Sensors and Actuators B: Chemical</i> , 2005 , 108, 455-460	8.5	64
7	Combustor of ceramic Pt/alumina catalyst and its application for micro-thermoelectric hydrogen sensor. <i>Applied Catalysis A: General</i> , 2005 , 287, 19-24	5.1	29

6	Micromachined Thermoelectric Hydrogen Sensor of Double-Membrane Structure. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, L367-L370	1.4	9
5	Thermoelectric Hydrogen Sensor Based on SiGe Thin Film. <i>Key Engineering Materials</i> , 2004 , 269, 117-120	1.4	5
4	Thermoelectric Properties of RF-Sputtered SiGe Thin Film for Hydrogen Gas Sensor. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, 5978-5983	1.4	39
3	Boron and Nitrogen in GaAs and InP Melts Equilibrated with B ₂ O ₃ Flux. <i>Materials Transactions</i> , 2004 , 45, 1306-1310	1.3	2
2	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	1.3	1
1	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		5