

# Hiroshi Kakiuchida

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2434679/publications.pdf>

Version: 2024-02-01

83  
papers

1,025  
citations

471509

17  
h-index

501196

28  
g-index

84  
all docs

84  
docs citations

84  
times ranked

942  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical Properties of Vanadium Dioxide Film during Semiconductive“Metallic Phase Transition. Japanese Journal of Applied Physics, 2007, 46, L113-L116.	1.5	102
2	Control of thermochromic spectrum in vanadium dioxide by amorphous silicon suboxide layer. Solar Energy Materials and Solar Cells, 2008, 92, 1279-1284.	6.2	72
3	Characteristics of a semiconductor laser with external feedback. IEEE Journal of Quantum Electronics, 1994, 30, 2087-2097.	1.9	57
4	Precise determination of fictive temperature of silica glass by infrared absorption spectrum. Journal of Applied Physics, 2003, 93, 777-779.	2.5	54
5	Limit of the Rayleigh scattering loss in silica fiber. Applied Physics Letters, 2003, 83, 5175-5177.	3.3	43
6	Omniphobic Metal Surfaces with Low Contact Angle Hysteresis and Tilt Angles. Langmuir, 2018, 34, 11405-11413.	3.5	34
7	Refractive Index, Density and Polarizability of Silica Glass with Various Fictive Temperatures. Japanese Journal of Applied Physics, 2004, 43, L743-L745.	1.5	32
8	Textured Organogel Films Showing Unusual Thermo-responsive Dewetting, Icephobic, and Optical Properties. Advanced Materials Interfaces, 2019, 6, 1801358.	3.7	28
9	Viscoelastic and Structural Properties of a Phenyl-Modified Polysiloxane System with a Three-Dimensional Structure. Journal of Physical Chemistry B, 2006, 110, 7321-7327.	2.6	25
10	Light-scattering study of the glass transition in silica, with practical implications. Journal of Applied Physics, 1998, 84, 3107-3112.	2.5	23
11	Refractive index and density changes in silica glass by halogen doping. Journal of Non-Crystalline Solids, 2007, 353, 568-572.	3.1	23
12	Optical characterization of vanadium“titanium oxide films. Thin Solid Films, 2008, 516, 4563-4567.	1.8	23
13	Thermally tunable light filter composed of cholesteric liquid crystals with different temperature dependence. Solar Energy Materials and Solar Cells, 2016, 157, 250-258.	6.2	23
14	Investigation of the origin of the Rayleigh scattering in SiO <sub>2</sub> glass. Journal of Non-Crystalline Solids, 1997, 222, 329-334.	3.1	22
15	Effects of Organic Groups on Structure and Viscoelastic Properties of Organic“Inorganic Polysiloxane Hybrid System. Journal of Physical Chemistry B, 2007, 111, 982-988.	2.6	22
16	Thermal control of transmittance/diffraction states of holographic structures composed of polymer and liquid crystal phases. Solar Energy Materials and Solar Cells, 2010, 94, 1747-1752.	6.2	22
17	Optical constants of vacuum evaporated SiO film and an application. Journal of Electroceramics, 2006, 16, 511-515.	2.0	19
18	Analysis of Anisotropic Diffraction Gratings Using Holographic Polymer-Dispersed Liquid Crystal. Japanese Journal of Applied Physics, 2007, 46, 7341.	1.5	18

#	ARTICLE	IF	CITATIONS
19	Rewritable Holographic Structures Formed in Organic-Inorganic Hybrid Materials by Photothermal Processing. <i>Advanced Functional Materials</i> , 2009, 19, 2569-2576.	14.9	18
20	Rayleigh Scattering in Fluorine-Doped Silica Glass. <i>Japanese Journal of Applied Physics</i> , 2003, 42, 6516-6517.	1.5	17
21	Refractive index and density in F- and Cl-doped silica glasses. <i>Applied Physics Letters</i> , 2005, 86, 161907.	3.3	17
22	Electronic and atomic structure modifications of copper nitride films by ion impact and phase separation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2009, 267, 2653-2656.	1.4	17
23	Effect of Chlorine on Rayleigh Scattering Reduction in Silica Glass. <i>Japanese Journal of Applied Physics</i> , 2003, 42, L1526-L1528.	1.5	15
24	Fictive-temperature dependence of structural relaxation in silica glass. <i>Journal of Applied Physics</i> , 2003, 94, 1705-1708.	2.5	15
25	Physical properties of the tunic in the pinkish-brown salp <i>Pegea confoederata</i> (Tunicata: Thaliacea). <i>Zoological Letters</i> , 2018, 4, 7.	1.3	15
26	Electrical property modifications of In-doped ZnO films by ion irradiation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2010, 268, 3071-3075.	1.4	14
27	Normal- and Reverse-Mode Thermoresponsive Controllability in Optical Attenuation of Polymer Network Liquid Crystals. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 19404-19412.	8.0	14
28	Dielectric relaxation in silica glass. <i>Journal of Applied Physics</i> , 1999, 86, 5983-5987.	2.5	13
29	Ion irradiation effects on tungsten-oxide films and charge state effect on electronic erosion. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2010, 268, 3167-3170.	1.4	13
30	Measurement of refractive indices of tunicates' tunic: light reflection of the transparent integuments in an ascidian <i>Rhopalaea</i> sp. and a salp <i>Thetys vagina</i> . <i>Zoological Letters</i> , 2017, 3, 7.	1.3	13
31	Effects of thermal modulation on diffraction in liquid crystal composite gratings. <i>Applied Optics</i> , 2010, 49, 4633.	2.1	12
32	Growth of Mn-doped ZnO thin films by rf-sputter deposition and lattice relaxation by energetic ion impact. <i>Applied Surface Science</i> , 2015, 350, 31-37.	6.1	12
33	Reverse-mode thermoresponsive light attenuators produced by optical anisotropic composites of nematic liquid crystals and reactive mesogens. <i>Optical Materials</i> , 2018, 78, 273-278.	3.6	10
34	Ion beam characterization of rf-sputter deposited AlN films on Si(111). <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2008, 266, 1522-1526.	1.4	9
35	Optical diffractometry of highly anisotropic holographic gratings formed by liquid crystal and polymer phase separation. <i>Physical Review E</i> , 2012, 86, 061701.	2.1	9
36	Electronic sputtering of CuO films by high-energy ions. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2013, 314, 55-58.	1.4	9

#	ARTICLE	IF	CITATIONS
37	Optical Characterization of Titanium-Vanadium Oxide Films. Japanese Journal of Applied Physics, 2007, 46, 621-626.	1.5	8
38	Modifications of AlN thin films by ions. Nuclear Instruments & Methods in Physics Research B, 2007, 257, 433-437.	1.4	8
39	High-energy ion irradiation effects on atomic structures and optical properties of copper oxide and electronic sputtering. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 2986-2989.	1.4	8
40	Diffraction Properties of Anisotropic Volume Gratings Formed in Polymer-Dispersed Liquid Crystal. Japanese Journal of Applied Physics, 2008, 47, 6688-6694.	1.5	8
41	Control of Optical Performance in Infrared Region for Vanadium Dioxide Films Layered by Amorphous Silicon. International Journal of Thermophysics, 2010, 31, 1964-1971.	2.1	8
42	Effects of a radiation dose in gamma-ray irradiation fields on holographic gratings formed by liquid crystal composites. OSA Continuum, 2021, 4, 514.	1.8	8
43	Local Structural Relaxation around OH in Silica Glass. Japanese Journal of Applied Physics, 2002, 41, 2993-2998.	1.5	7
44	Control of anisotropic diffraction in liquid-crystal composite volume gratings. Optics Letters, 2008, 33, 1521.	3.3	7
45	Parallel plications may enhance surface function: physical properties of transparent tunics in colonial ascidians Clavelina cyclus and C. obesa. Journal of the Marine Biological Association of the United Kingdom, 2019, 99, 1831-1839.	0.8	7
46	Thermoresponsive Reflective Scattering of Meso-Scale Phase Separation Structures of Uniaxially Orientation-Ordered Liquid Crystals and Reactive Mesogens. ACS Applied Materials & Interfaces, 2021, 13, 41066-41074.	8.0	7
47	Ion induced modifications of Mn-doped ZnO films. Nuclear Instruments & Methods in Physics Research B, 2015, 365, 191-195.	1.4	6
48	Multiple Bragg Diffractions with Different Wavelengths and Polarizations Composed of Liquid Crystal/Polymer Periodic Phases. ACS Omega, 2017, 2, 6081-6090.	3.5	6
49	Optical diffractometry of anisotropic holographic structure composed of liquid crystal and polymer phases with extended Bragg modes. Thin Solid Films, 2014, 571, 431-436.	1.8	5
50	Smart windows. , 2019, , 341-359.		5
51	Light Scattering Studies on the Glass Transition and the Structure in Silica Glass. Japanese Journal of Applied Physics, 1998, 37, 32.	1.5	5
52	Rayleigh scattering in fluorine-doped silica glass. , 2002, , .		4
53	Photothermal fabrication of microstructures in transparent low-melting media doped with rare earth ions as a light absorber. Applied Physics Letters, 2006, 88, 1919-1924.	3.3	4
54	Electronic structure modifications of cuprous-oxide films by ions. Surface and Coatings Technology, 2009, 203, 2642-2645.	4.8	4

#	ARTICLE	IF	CITATIONS
55	Visible and Infra-Red Reflectance of Several Typical Japanese Glazes for Roof Tiles and Wall Tiles. <i>Advances in Science and Technology</i> , 2010, 68, 96-101.	0.2	3
56	Polyurethane-Based Ionogels Exhibiting Durable Thermoresponsive Optical Behavior Under High-Temperature Conditions. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 195-201.	0.9	3
57	Ellipsometric study of the electronic behaviors of titanium-vanadium dioxide (Ti <sub>1-x</sub> V <sub>1-x</sub> O <sub>2</sub> ) films for 0 ≤ x ≤ 1 during semiconductive-to-metallic phase transition. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	3
58	Effects of halogen doping on structure of silica glass as a photonic material. , 2003, 4833, 504.		2
59	Solar Reflectance of Glazes for Exterior Wall Tiles. <i>IOP Conference Series: Materials Science and Engineering</i> , 2011, 18, 222024.	0.6	2
60	Effective Approach to Render Stable Dynamic Omnipobicity and Icephobicity to Ultrasoother Metal Surfaces. <i>Langmuir</i> , 2021, 37, 11771-11780.	3.5	2
61	Thermally responsive polymer-dispersed liquid crystal diffusers fabricated using laser speckle pattern irradiation. <i>Applied Optics</i> , 2021, 60, 10246.	1.8	2
62	<title>Spectroscopic multilayer film thickness measurement system</title>. , 1996, , .		1
63	Toward ultralucent optical fibers. , 2001, , .		1
64	Structural Relaxations in Silica Glass. <i>AIP Conference Proceedings</i> , 2004, , .	0.4	1
65	The Organic-inorganic Hybrid Low-melting Glasses Doped with Optical Active Centers via Non-aqueous Acid-base Reaction. <i>Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2005, 52, 775-780.	0.2	1
66	Long-Term Optical and Thermal Examinations of Ceramic Wall System with Solar-Altitude Dependent Reflectance. <i>Advances in Science and Technology</i> , 2010, 68, 53-58.	0.2	1
67	$\hat{\Gamma}$ -2 $\hat{\Gamma}$ ; diffractometry of anisotropic holographic gratings composed of liquid crystal and polymer phases. <i>Proceedings of SPIE</i> , 2013, , .	0.8	1
68	Solar Reflectance of Glazed Tiles. <i>Advances in Science and Technology</i> , 0, , .	0.2	1
69	Meso-scale wrinkled coatings to improve heat transfers of surfaces facing ambient air. <i>Applied Thermal Engineering</i> , 2015, 87, 251-257.	6.0	1
70	Long term examination of thermal management of roof structures with air flow systems or/and polyurethane foams. <i>Energy and Buildings</i> , 2020, 214, 109842.	6.7	1
71	Silica glass for photonics. , 2001, , .		0
72	Specific Volume of Fluorine-Doped Silica Glass with Various Fictive Temperatures. <i>Japanese Journal of Applied Physics</i> , 2004, 43, L464-L467.	1.5	0

#	ARTICLE	IF	CITATIONS
73	Organic-inorganic hybrid films highly doped with functional centers for advanced photonics applications. , 2011, , .		0
74	Polarization-selective Bragg diffractive wavelengths in holographic structures composed of liquid crystal and polymer phases. , 2014, , .		0
75	Thermo-driven light controller by using thermal modulation of diffraction wavelength in holographic polymer dispersed liquid crystal grating. Proceedings of SPIE, 2014, , .	0.8	0
76	Effects of anisotropic diffraction on micro-periodic structure composed of polymer and liquid crystal phases. Transactions of the Materials Research Society of Japan, 2015, 40, 421-424.	0.2	0
77	Effect of polymer concentration on selective reflection spectra in cholesteric liquid crystals. , 2015, , .		0
78	Analysis of selective reflection spectrum in cholesteric liquid crystal cells for solar-ray controller. Proceedings of SPIE, 2015, , .	0.8	0
79	Thermal modulation of selective transmittance spectra by combination of cholesteric liquid crystal cells. , 2016, , .		0
80	Effect of UV irradiation on transmittance spectra in polymer stabilized cholesteric liquid crystals. , 2017, , .		0
81	Optical Filter for Infrared Region Formed by Polymer Stabilized Cholesteric Liquid Crystals. , 2019, , .		0
82	Simple-structure thermoresponsive PNLCs for smart windows. , 2020, , .		0
83	Formation of temperature dependent polymer dispersed liquid crystal using laser speckle pattern irradiation. , 2021, , .		0