

Taichi Goto

List of Publications by Year in descending order

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64
papers

1,254
citations

471061

17
h-index

377514

34
g-index

65
all docs

65
docs citations

65
times ranked

1233
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical Tamm States in One-Dimensional Magnetophotonic Structures. <i>Physical Review Letters</i> , 2008, 101, 113902.	2.9	215
2	Magneto-optical properties of cerium substituted yttrium iron garnet films with reduced thermal budget for monolithic photonic integrated circuits. <i>Optics Express</i> , 2012, 20, 28507.	1.7	104
3	Single-Step Deposition of Cerium-Substituted Yttrium Iron Garnet for Monolithic On-Chip Optical Isolation. <i>ACS Photonics</i> , 2015, 2, 856-863.	3.2	92
4	Enhanced Magneto-optic Kerr Effect and Magnetic Properties of $\text{CeY}_{1-x}\text{O}_x$. <i>Physical Review Applied</i> , 2015, 4, .	1.7	79
5	Tailoring surfaces of one-dimensional magnetophotonic crystals: Optical Tamm state and Faraday rotation. <i>Physical Review B</i> , 2009, 79, .	1.1	59
6	Integration of bulk-quality thin film magneto-optical cerium-doped yttrium iron garnet on silicon nitride photonic substrates. <i>Optics Express</i> , 2014, 22, 25183.	1.7	50
7	Demonstration of a robust magnonic spin wave interferometer. <i>Scientific Reports</i> , 2016, 6, 30268.	1.6	49
8	The role of Snell's law for a magnonic majority gate. <i>Scientific Reports</i> , 2017, 7, 7898.	1.6	47
9	Vacuum annealed cerium-substituted yttrium iron garnet films on non-garnet substrates for integrated optical circuits. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	41
10	Magneto-optic spatial light modulator with submicron-size magnetic pixels for wide-viewing-angle holographic displays. <i>Optics Letters</i> , 2014, 39, 3344.	1.7	37
11	Magnetophotonic crystal with cerium substituted yttrium iron garnet and enhanced Faraday rotation angle. <i>Optics Express</i> , 2016, 24, 8746.	1.7	29
12	Three port logic gate using forward volume spin wave interference in a thin yttrium iron garnet film. <i>Scientific Reports</i> , 2019, 9, 16472.	1.6	27
13	A nonreciprocal racetrack resonator based on vacuum-annealed magneto-optical cerium-substituted yttrium iron garnet. <i>Optics Express</i> , 2014, 22, 19047.	1.7	25
14	Faraday rotation of a magnetophotonic crystal with the dual-cavity structure. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	23
15	Static and Dynamic Magnetic Properties of Single-Crystalline Yttrium Iron Garnet Films Epitaxially Grown on Three Garnet Substrates. <i>Advanced Electronic Materials</i> , 2018, 4, 1800106.	2.6	23
16	Magnetic domains driving a Q-switched laser. <i>Scientific Reports</i> , 2016, 6, 38679.	1.6	19
17	Magneto-optical Q-switching using magnetic garnet film with micromagnetic domains. <i>Optics Express</i> , 2016, 24, 17635.	1.7	19
18	Nanotube array-based barium titanate-cobalt ferrite composite film for affordable magnetoelectric multiferroics. <i>Journal of Materials Chemistry C</i> , 2019, 7, 10066-10072.	2.7	19

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19	Metal thickness dependence on spin wave propagation in magnonic crystal using yttrium iron garnet. Journal of Applied Physics, 2015, 117, .	1.1	17
20	Magnetism and Faraday Rotation in Oxygen-Deficient Polycrystalline and Single-Crystal Iron-Substituted Strontium Titanate. Physical Review Applied, 2017, 7, .	1.5	16
21	One-Dimensional Magnonic Crystal With $\langle \text{Cu} \rangle$ Stripes for Forward Volume Spin Waves. Physical Review Applied, 2019, 11, .	1.5	16
22	Improvement of diffraction efficiency of three-dimensional magneto-optic spatial light modulator with magnetophotonic crystal. Applied Physics Letters, 2016, 108, 022404.	1.5	15
23	Novel magnetophotonic crystals controlled by the electro-optic effect for non-reciprocal high-speed modulators. Journal of Applied Physics, 2011, 109, 07B756.	1.1	14
24	Spin wave isolator based on frequency displacement nonreciprocity in ferromagnetic bilayer. Journal of Applied Physics, 2015, 117, .	1.1	13
25	Thermomagnetic writing into magnetophotonic microcavities controlling thermal diffusion for volumetric magnetic holography. Optics Express, 2016, 24, 522.	1.7	13
26	Extremely flat transmission band of forward volume spin wave using gold and yttrium iron garnet. Journal Physics D: Applied Physics, 2017, 50, 275001.	1.3	13
27	Spin wave localization in one-dimensional magnonic microcavity comprising yttrium iron garnet. Journal of Applied Physics, 2014, 116, .	1.1	12
28	Diffraction Efficiency of Volumetric Magnetic Holograms with Magnetophotonic Crystals. Journal of the Magnetics Society of Japan, 2014, 38, 119-122.	0.5	12
29	One-Dimensional Single- and Dual-Cavity Magnetophotonic Crystal Fabricated by Bonding. Journal of the Magnetics Society of Japan, 2012, 36, 54-57.	0.5	11
30	Oxygen partial pressure dependence of magnetic, optical and magneto-optical properties of epitaxial cobalt-substituted SrTiO ₃ films. Optics Express, 2015, 23, 13399.	1.7	11
31	Para-magneto- and electro-optic microcavities for blue wavelength modulation. Optics Express, 2013, 21, 19648.	1.7	10
32	Reconstruction of non-error magnetic hologram data by magnetic assist recording. Scientific Reports, 2017, 7, 12835.	1.6	10
33	Combinatorial Pulsed Laser Deposition of Magnetic and Magneto-optical Sr(Ga _x Ti _y Fe _{0.34-0.40})O ₃ Perovskite Films. ACS Combinatorial Science, 2014, 16, 640-646.	3.8	9
34	Collinear volumetric magnetic holography with magnetophotonic microcavities. Optics Express, 2015, 23, 13153.	1.7	9
35	Thermally stable amorphous tantalum yttrium oxide with low IR absorption for magnetophotonic devices. Scientific Reports, 2017, 7, 13805.	1.6	9
36	Spin wave differential circuit for realization of thermally stable magnonic sensors. Applied Physics Letters, 2015, 106, 132412.	1.5	8

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37	Error-free reconstruction of magnetic hologram via improvement of recording conditions in collinear optical system. Optics Express, 2017, 25, 15349.	1.7	8
38	Effect of Structure and Properties of Magnetic Material on Diffraction Efficiency of Magnetophotonic Crystal Media for Magnetic Volumetric Holography. Journal of the Magnetics Society of Japan, 2015, 39, 33-36.	0.5	7
39	Selective Crystallization of Magnetic Garnet Films on Bragg Mirrors by Laser Annealing. Journal of the Magnetics Society of Japan, 2012, 36, 183-187.	0.5	6
40	Induced nonlinear phase shift of spin waves for magnonic logic circuits. Applied Physics Letters, 2021, 119, .	1.5	6
41	Magnetophotonic crystal comprising electro-optical layer for controlling helicity of light. Journal of Applied Physics, 2012, 111, 07A913.	1.1	5
42	Spin wave absorber generated by artificial surface anisotropy for spin wave device network. AIP Advances, 2016, 6, 095204.	0.6	5
43	Multiferroic nanocomposite fabrication via liquid phase using anodic alumina template. Science and Technology of Advanced Materials, 2018, 19, 535-542.	2.8	5
44	Randomly polarised beam produced by magnetooptically Q-switched laser. Scientific Reports, 2017, 7, 15398.	1.6	4
45	Development of Heat Dissipation Multilayer Media for Volumetric Magnetic Hologram Memory. Applied Sciences (Switzerland), 2019, 9, 1738.	1.3	4
46	Defect depth estimation using magneto optical imaging with magnetophotonic crystal. Journal of the Magnetics Society of Japan, 2015, 39, 213-215.	0.5	3
47	Colorized Magneto-optic Three Dimensional Display Using Optical Space Division Method. Journal of the Magnetics Society of Japan, 2015, 39, 44-47.	0.5	3
48	Recording and reconstruction of volumetric magnetic hologram using multilayer medium with heat dissipation layers. Optics Express, 2019, 27, 27573.	1.7	3
49	Fabrication of Magnetophotonic Crystals with Paramagnetic Garnet Films. Journal of the Magnetics Society of Japan, 2011, 35, 199-202.	0.5	3
50	Fabrication of Microcavity with Magneto- and Electro-Optical Film. Journal of the Magnetics Society of Japan, 2012, 36, 197-201.	0.5	3
51	Broadband excitation of spin wave using microstrip line antennas for integrated magnonic devices. Journal Physics D: Applied Physics, 2022, 55, 115002.	1.3	3
52	Colorization of Magnetic Hologram Images With Optical Space Division Method. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	2
53	Crystalline and magneto-optical characteristics of $(\text{Tb,Bi})_3(\text{Fe,Ga})_5\text{O}_{12}$ deposited on $(\text{Y,Nd})_3\text{Al}_5\text{O}_{12}$. Japanese Journal of Applied Physics, 2018, 57, 061101.	0.8	2
54	Development of liquid-phase fabrication of nanotube array-based multiferroic nanocomposite film. Journal of Alloys and Compounds, 2021, 869, 159219.	2.8	2

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55	SrGa _{0.7} Co _{0.3} O ₃ perovskite-cobalt oxide-metal nanocomposite films: magnetic and optical properties. Nanotechnology, 2015, 26, 115701.	1.3	1
56	Development of heat dissipation multilayer media for magnetic hologram memory. Electronics and Communications in Japan, 2020, 103, 22-29.	0.3	1
57	Epitaxial growth of Ce substituted yttrium iron garnet film on Nd:YAG substrate. , 2017, , .		1
58	Epitaxially Grown Magnetic Garnet Film on Nd:YAG Substrate for Microchip Lasers. , 2017, , .		1
59	Dual-cavity magnetophotonic crystals when applying bounding: An analysis by the matrix approach. Journal of Physics: Conference Series, 2011, 266, 012009.	0.3	0
60	Magneto-optical studies of SrGa _{0.7} Co _{0.3} O ₃ perovskite thin films with embedded cobalt nanoparticles. Journal of Applied Physics, 2015, 117, 17A746.	1.1	0
61	Development of One-dimensional Magnonic Crystal using Forward Volume Spin Wave. IEEJ Transactions on Fundamentals and Materials, 2021, 141, 327-332.	0.2	0
62	Actively controlled Q-switched laser using domains in magneto-optical garnet film. , 2016, , .		0
63	Development of a Wide-viewing-angle Magnetophotonic Crystal for a Magneto-optic Three-dimensional Display. IEEJ Transactions on Fundamentals and Materials, 2017, 137, 398-403.	0.2	0
64	Development of Heat Dissipation Multilayered Media for Magnetic Hologram Memory. IEEJ Transactions on Fundamentals and Materials, 2020, 140, 125-130.	0.2	0