

Masahiro Goto

List of Publications by Year in descending order

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times ranked

1088
citing authors

#	ARTICLE	IF	CITATIONS
1	A conductive polymer nanowire including functional quantum dots generated via pulsed laser irradiation for high-sensitivity sensor applications. <i>Scientific Reports</i> , 2021, 11, 11203.	3.3	1
2	Identifying Optimal Strain in Bismuth Telluride Thermoelectric Film by Combinatorial Gradient Thermal Annealing and Machine Learning. <i>ACS Combinatorial Science</i> , 2020, 22, 782-790.	3.8	8
3	Conduction type control and power factor enhancement of the thermoelectric material Al ₂ Fe ₃ Si ₃ . <i>Journal of Physics and Chemistry of Solids</i> , 2018, 118, 95-98.	4.0	16
4	Ultra-low thermal conductivity of high-interface density Si/Ge amorphous multilayers. <i>Applied Physics Express</i> , 2018, 11, 045202.	2.4	8
5	Electronic structure and thermoelectric properties of narrow-band-gap intermetallic compound Al ₂ Fe ₃ Si ₃ . <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 131, 281-287.	3.6	20
6	Combinatorial investigation of spin-orbit materials using spin Peltier effect. <i>Scientific Reports</i> , 2018, 8, 16067.	3.3	18
7	Electrically Conductive Thermally Insulating Bi-Si Nanocomposites by Interface Design for Thermal Management. <i>ACS Applied Nano Materials</i> , 2018, 1, 3355-3363.	5.0	21
8	Modification of thermal conductivity and thermal boundary resistance of amorphous Si thin films by Al doping. <i>RSC Advances</i> , 2017, 7, 7901-7905.	3.6	11
9	Control of p-type and n-type thermoelectric properties of bismuth telluride thin films by combinatorial sputter coating technology. <i>Applied Surface Science</i> , 2017, 407, 405-411.	6.1	43
10	Control of friction force by light observed by friction force microscopy in a vacuum. <i>Applied Physics Express</i> , 2017, 10, 015201.	2.4	9
11	Thermal boundary resistance at Au/Ge/Ge and Au/Si/Ge interfaces. <i>RSC Advances</i> , 2015, 5, 49703-49707.	3.6	15
12	Phonons with long mean free paths in a-Si and a-Ge. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	32
13	Frictional Property Depended on Crystal Preferred Orientation Analyzed by a Combinatorial Technique. <i>Tribology Letters</i> , 2014, 55, 289-293.	2.6	2
14	Thermal conductivity of sputtered amorphous Ge films. <i>AIP Advances</i> , 2014, 4, .	1.3	20
15	MoS ₂ sputtering coating for ultrahigh vacuum manipulation. <i>Journal of Physics: Conference Series</i> , 2013, 417, 012048.	0.4	1
16	Synthesis of Polystyrene Nanowires Doped with Iron Oxide Nanoparticles Using a Pulsed Laser. <i>Applied Physics Express</i> , 2013, 6, 045004.	2.4	1
17	Properties of Molecular Nanojets in Different Solutions. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 110119.	1.5	1
18	Reduction of Friction Force by Light. <i>Applied Physics Express</i> , 2013, 6, 047202.	2.4	3

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19	Thermal conductivity of ZnO thin film produced by reactive sputtering. Journal of Applied Physics, 2012, 111, .	2.5	57
20	A New Technique for Enhancing Sensitivity of the 2I‰ Method by Applying a Bismuth Film Thermoreflectance Sensor on Top of the Metal Filmâ€Dielectric Substrate Sample. Japanese Journal of Applied Physics, 2011, 50, 046602.	1.5	4
21	Development of a Frequency-Domain Method Using Completely Optical Techniques for Measuring the Interfacial Thermal Resistance between the Metal Film and the Substrate. Japanese Journal of Applied Physics, 2011, 50, 106602.	1.5	10
22	Low-Friction Coatings of Zinc Oxide Synthesized by Optimization of Crystal Preferred Orientation. Tribology Letters, 2011, 43, 155-162.	2.6	20
23	A New Technique for Enhancing Sensitivity of the 2I‰ Method by Applying a Bismuth Film Thermoreflectance Sensor on Top of the Metal Filmâ€Dielectric Substrate Sample. Japanese Journal of Applied Physics, 2011, 50, 046602.	1.5	1
24	Development of a Frequency-Domain Method Using Completely Optical Techniques for Measuring the Interfacial Thermal Resistance between the Metal Film and the Substrate. Japanese Journal of Applied Physics, 2011, 50, 106602.	1.5	11
25	Combinatorial Sputter Coating System and Frictional Property Control of ZnO Coating Films. Journal of the Vacuum Society of Japan, 2011, 54, 565-570.	0.3	1
26	Effect of microstructure on Au/sapphire interfacial thermal resistance. Journal of Applied Physics, 2010, 108, 104317.	2.5	39
27	Synthesis of Polymer Nanowires by Pulsed Laser Irradiation. Applied Physics Express, 2009, 2, 065503.	2.4	3
28	Preparation of 1-pyrenebutyric acid and pyrene submicron dots by laser-induced molecular micro-jet implantation. Thin Solid Films, 2009, 518, 896-900.	1.8	2
29	Photocatalytic property of TiO2 thin films sputtered-deposited on unheated substrates. Applied Surface Science, 2009, 256, 937-942.	6.1	17
30	Photocatalytic Properties of TiO[sub 2] Nanostructures Fabricated by Means of Glancing Angle Deposition and Anodization. Journal of the Electrochemical Society, 2009, 156, K160.	2.9	35
31	Effect of Long Time Orbit Exposure Test on Solid Lubricative Coating. Transactions of the Japan Society for Aeronautical and Space Sciences Space Technology Japan, 2009, 7, Tr_2_63-Tr_2_66.	0.2	2
32	Molecular implantation using a laser-induced molecular micro-jet. Journal of Photochemistry and Photobiology A: Chemistry, 2008, 193, 42-49.	3.9	5
33	Photocatalytic properties of titanium dioxide sputtered on a nanostructured substrate. Thin Solid Films, 2008, 516, 2387-2391.	1.8	32
34	Implantation of organic matter through water onto solid substrates by a laser induced molecular jet. Thin Solid Films, 2008, 516, 2507-2512.	1.8	4
35	Reduction in Frictional Force of ZnO Coatings in a Vacuum. Japanese Journal of Applied Physics, 2008, 47, 8914.	1.5	13
36	Micro-Patterned Organic Electroluminescent Devices. Japanese Journal of Applied Physics, 2008, 47, 1263-1265.	1.5	2

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37	Laser Induced Molecular Micro-Jet Implantation of Perylene Molecules through Water or Diiodomethane Layers. Applied Physics Express, 2008, 1, 067010.	2.4	4
38	Molecular Implantation by Pulsed Laser Irradiation Using Self-Organized Polymer Honeycomb Templates. E-Journal of Surface Science and Nanotechnology, 2008, 6, 222-225.	0.4	0
39	Effect of Exposure Test in Orbit on Tribological Properties of Solid Lubricative Coatings. Journal of the Vacuum Society of Japan, 2008, 51, 559-562.	0.3	2
40	Thermal Conductivity Measurement of Tungsten Oxide Nanoscale Thin Films. Materials Transactions, 2006, 47, 1894-1897.	1.2	30
41	Low frictional property of copper oxide thin films optimised using a combinatorial sputter coating system. Applied Surface Science, 2006, 252, 2482-2487.	6.1	28
42	Process during laser implantation and ablation of Coumarin 6 in poly (butyl methacrylate) films. Journal of Photochemistry and Photobiology A: Chemistry, 2006, 183, 292-296.	3.9	9
43	Frictional property with preferred crystal orientation of platinum oxide and palladium oxide coatings synthesized by combinatorial sputter coating system. Vacuum, 2006, 80, 740-743.	3.5	5
44	Implantation of Perylene Molecules into Glass Plates through a Water Layer Using a Laser Induced Molecular Micro-Jet. Japanese Journal of Applied Physics, 2006, 45, L966-L969.	1.5	8
45	Effect of Exposure in Orbit on Friction of Lubrica.... , 2005, , .		0
46	Silicon microstructure fabricated by laser micro-patterning method combined with wet etching process. Applied Surface Science, 2005, 241, 223-226.	6.1	1
47	Preparation of Coumarin 6 and ZnTPP micro dots on PBMA films by laser molecular implantation. Applied Surface Science, 2005, 241, 205-208.	6.1	7
48	Influence of reacting nitrogen gas consistence on the properties of TiN films prepared by rf. magnetron sputtering. Applied Surface Science, 2005, 244, 244-247.	6.1	22
49	Microdot pattern of multiple organic molecules prepared by laser photopolymerization process with a nanosecond pulsed laser. Applied Physics A: Materials Science and Processing, 2005, 81, 507-510.	2.3	2
50	Effect of Surface Roughness on Adsorption Force and Smooth Sliding in a Vacuum. Shinku/Journal of the Vacuum Society of Japan, 2005, 48, 445-447.	0.2	0
51	Thermal conductivity of SiC fine particles reinforced Al alloy matrix composite with dispersed particle size. Journal of Applied Physics, 2004, 95, 722-726.	2.5	31
52	Low Frictional Coating of Copper Oxide with Preferred Crystal Orientation. Tribology Letters, 2004, 17, 51-54.	2.6	11
53	Micro-patterning of multiple organic molecules by laser implantation. Applied Physics A: Materials Science and Processing, 2004, 79, 157-160.	2.3	12
54	Fabrication of polymer dot pattern containing fluorescent molecules by laser photopolymerization. Applied Physics A: Materials Science and Processing, 2004, 79, 1733-1735.	2.3	4

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55	Low frictional copper oxide film prepared with sodium hydroxide solution. <i>Surface and Interface Analysis</i> , 2004, 36, 1259-1261.	1.8	10
56	Measurement of friction force electrochemical buffing and chemical polishing to decrease sliding friction in high vacuum with control of surface nano roughness. <i>Journal of Electroanalytical Chemistry</i> , 2003, 559, 45-48.	3.8	12
57	Growth of boron nitride nano islands on substrates, triggered by internal stress. <i>Surface and Coatings Technology</i> , 2003, 168, 98-101.	4.8	4
58	Lubricative coatings of copper oxide for aerospace applications. <i>Journal of Applied Physics</i> , 2003, 94, 2110-2114.	2.5	16
59	Control of pressure rise in a vacuum chamber by boron nitride and copper composite coating. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2003, 21, 1873-1876.	2.1	1
60	Frictional Property of Zinc Oxide Coating Films Observed by Lateral Force Microscopy. <i>Japanese Journal of Applied Physics</i> , 2003, 42, 4834-4836.	1.5	12
61	Surface Fine Structure and Tribology for Complex Thin Films and Stainless Steel with Different Surface Roughness.. <i>Shinku/Journal of the Vacuum Society of Japan</i> , 2003, 46, 116-122.	0.2	0
62	Nanotribological Property of Boron Nitride-Copper Complex Films. <i>Shinku/Journal of the Vacuum Society of Japan</i> , 2003, 46, 509-511.	0.2	1
63	Improvement of Pressure Stability in a Vacuum Chamber with h-BN/Cu Coating. <i>Shinku/Journal of the Vacuum Society of Japan</i> , 2003, 46, 253-256.	0.2	0
64	Low frictional coating by cosputtering in combination with excimer laser irradiation for aerospace applications. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2002, 20, 1458-1461.	2.1	12
65	Effect of Nano Surface Roughness on Friction Coefficient of Stainless Steel.. <i>Shinku/Journal of the Vacuum Society of Japan</i> , 2002, 45, 361-364.	0.2	3
66	Characteristics of thin films of hexagonal boron nitride mixed with copper controlled by a magnetron co-sputtering deposition technique. <i>Applied Surface Science</i> , 2002, 185, 172-176.	6.1	17
67	Control of frictional force on coating films of boron nitride-copper complex in ultra high vacuum. <i>Thin Solid Films</i> , 2002, 405, 300-303.	1.8	13
68	Improvement of Frictional Property of Copper-Boron Nitride Complex by Excimer Laser Irradiation.. <i>Shinku/Journal of the Vacuum Society of Japan</i> , 2002, 45, 858-861.	0.2	0
69	Microscopic Laser Patterning of Functional Organic Molecules. <i>Advanced Materials</i> , 2001, 13, 1155-1158.	21.0	18
70	Laser expulsion of an organic molecular nanojet from a spatially confined domain. <i>Journal of Applied Physics</i> , 2001, 90, 4755-4760.	2.5	15
71	Control of Surface Properties of Thin Films of Hexagonal Boron Nitride-Copper Complex.. <i>Shinku/Journal of the Vacuum Society of Japan</i> , 2001, 44, 139-142.	0.2	2
72	Micro and Nano Scale Organic Molecular Patterning by Laser Implantation Technique.. <i>The Review of Laser Engineering</i> , 2001, 29, 726-729.	0.0	0

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73	Laser implantation of dicyanoanthracene in poly(methyl methacrylate) from a 100-nm aperture micropipette. <i>Applied Surface Science</i> , 2000, 154-155, 701-705.	6.1	12
74	Sub-Micrometer Photochromic Patterns using Laser Induced Molecular Implantation Techniques (LIMIT). <i>Molecular Crystals and Liquid Crystals</i> , 2000, 345, 299-304.	0.3	9
75	Photochromism of chromene crystals; a new property of old chromenes. <i>Chemical Communications</i> , 2000, , 1339-1340.	4.1	29
76	Implantation of Organic Molecules into Biotissue by Pulsed Laser Irradiation. <i>Japanese Journal of Applied Physics</i> , 1999, 38, L87-L88.	1.5	9
77	Single pulse nm-size grating formation in polymers using laser ablation with an irradiation wavelength of 355 nm. <i>Applied Physics Letters</i> , 1999, 75, 1018-1020.	3.3	35
78	Laser implantation of molecular aggregates into poly (methyl methacrylate). <i>Applied Surface Science</i> , 1999, 138-139, 471-476.	6.1	8
79	Sub-micrometer patterns of molecular photo-switches using laser induced molecular implantation techniques (LIMIT). <i>Applied Physics A: Materials Science and Processing</i> , 1999, 69, S945-S948.	2.3	20
80	Laser-induced implantation of organic molecules into sub-micrometer regions of polymer surfaces. <i>Applied Physics A: Materials Science and Processing</i> , 1999, 69, S257-S261.	2.3	8
81	Generation of Novel Aluminum Nano Balls. <i>Japanese Journal of Applied Physics</i> , 1998, 37, L1537-L1539.	1.5	5
82	Forward-transfer laser implantation of pyrene molecules in a solid polymer. <i>Applied Physics Letters</i> , 1998, 73, 1439-1441.	3.3	9
83	Formation of alumina fine particles by a magnetron sputtering Ar -gas aggregation method. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1997, 40, 115-118.	1.0	13
84	Fabrication of Complex Nano Structure by Metal/Semiconductor Cluster Flux.. <i>Journal of the Mass Spectrometry Society of Japan</i> , 1997, 45, 137-157.	0.1	0
85	The microwave spectrum of the NCl radical in the electronically excited ($a\ 1^1\pi$) state. <i>Journal of Chemical Physics</i> , 1996, 104, 8865-8870.	3.0	12
86	Laboratory Measurement of the $[1010]$ Transition of AlH near 387 GHz. <i>Astrophysical Journal</i> , 1995, 452, .	4.5	21
87	Microwave Spectra of the ZnH and ZnD Radicals in the $X\ 2^1\Sigma^+$ State. <i>Journal of Molecular Spectroscopy</i> , 1995, 173, 585-590.	1.2	16
88	Microwave spectra of the AlO ($X\ 2^1\Sigma^+$) radical in the $v=1$ and 2 states. <i>Chemical Physics Letters</i> , 1994, 227, 287-292.	2.6	26
89	Analysis of an anomalous vibrational dependence of the spin-rotation constants for AlO ($X\ 2^1\Sigma^+$). <i>Chemical Physics Letters</i> , 1994, 227, 293-298.	2.6	13
90	Submillimeter-wave spectra of the PH and PD radicals in the $3^1\Sigma^+$ state. <i>Chemical Physics Letters</i> , 1993, 211, 443-448.	2.6	30

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91	Laboratory submillimeter-wave observation of the N = 1-0 transition of the ND(3Sigma-) radical. Astrophysical Journal, 1993, 410, L53.	4.5	61
92	Molecular Nanojet in Water. Applied Physics Express, 0, 2, 035007.	2.4	1