

Masahiro Goto

List of Publications by Year in descending order

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92
papers

1,137
citations

394421

19
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501196

28
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92
all docs

92
docs citations

92
times ranked

1088
citing authors

#	ARTICLE	IF	CITATIONS
1	Laboratory submillimeter-wave observation of the N = 1-0 transition of the ND(3Sigma-) radical. <i>Astrophysical Journal</i> , 1993, 410, L53.	4.5	61
2	Thermal conductivity of ZnO thin film produced by reactive sputtering. <i>Journal of Applied Physics</i> , 2012, 111, .	2.5	57
3	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
4	Effect of microstructure on Au/sapphire interfacial thermal resistance. <i>Journal of Applied Physics</i> , 2010, 108, 104317.	2.5	39
5	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
6	Photocatalytic Properties of TiO ₂ Nanostructures Fabricated by Means of Glancing Angle Deposition and Anodization. <i>Journal of the Electrochemical Society</i> , 2009, 156, K160.	2.9	35
7	Photocatalytic properties of titanium dioxide sputtered on a nanostructured substrate. <i>Thin Solid Films</i> , 2008, 516, 2387-2391.	1.8	32
8	Phonons with long mean free paths in a-Si and a-Ge. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	32
9	Thermal conductivity of SiC fine particles reinforced Al alloy matrix composite with dispersed particle size. <i>Journal of Applied Physics</i> , 2004, 95, 722-726.	2.5	31
10	Submillimeter-wave spectra of the PH and PD radicals in the 3 Σ^+ state. <i>Chemical Physics Letters</i> , 1993, 211, 443-448.	2.6	30
11	Thermal Conductivity Measurement of Tungsten Oxide Nanoscale Thin Films. <i>Materials Transactions</i> , 2006, 47, 1894-1897.	1.2	30
12	Photochromism of chromene crystals; a new property of old chromenes. <i>Chemical Communications</i> , 2000, , 1339-1340.	4.1	29
13	Low frictional property of copper oxide thin films optimised using a combinatorial sputter coating system. <i>Applied Surface Science</i> , 2006, 252, 2482-2487.	6.1	28
14	Microwave spectra of the AlO (X ² Σ^+) radical in the v= 1 and 2 states. <i>Chemical Physics Letters</i> , 1994, 227, 287-292.	2.6	26
15	Influence of reacting nitrogen gas consistence on the properties of TiN films prepared by rf. magnetron sputtering. <i>Applied Surface Science</i> , 2005, 244, 244-247.	6.1	22
16	Laboratory Measurement of the [ITAL]J/[ITAL] = 1 Σ^+ 0 Transition of AlH near 387 GHz. <i>Astrophysical Journal</i> , 1995, 452, .	4.5	21
17	Electrically Conductive Thermally Insulating Bi α -Si Nanocomposites by Interface Design for Thermal Management. <i>ACS Applied Nano Materials</i> , 2018, 1, 3355-3363.	5.0	21
18	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

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19	Low-Friction Coatings of Zinc Oxide Synthesized by Optimization of Crystal Preferred Orientation. Tribology Letters, 2011, 43, 155-162.	2.6	20
20	Thermal conductivity of sputtered amorphous Ge films. AIP Advances, 2014, 4, .	1.3	20
21	Electronic structure and thermoelectric properties of narrow-band-gap intermetallic compound Al ₂ Fe ₃ Si ₃ . Journal of Thermal Analysis and Calorimetry, 2018, 131, 281-287.	3.6	20
22	Microscopic Laser Patterning of Functional Organic Molecules. Advanced Materials, 2001, 13, 1155-1158.	21.0	18
23	Combinatorial investigation of spin-orbit materials using spin Peltier effect. Scientific Reports, 2018, 8, 16067.	3.3	18
24	Characteristics of thin films of hexagonal boron nitride mixed with copper controlled by a magnetron co-sputtering deposition technique. Applied Surface Science, 2002, 185, 172-176.	6.1	17
25	Photocatalytic property of TiO ₂ thin films sputtered-deposited on unheated substrates. Applied Surface Science, 2009, 256, 937-942.	6.1	17
26	Microwave Spectra of the ZnH and ZnD Radicals in the X ² Σ ⁺ State. Journal of Molecular Spectroscopy, 1995, 173, 585-590.	1.2	16
27	Lubricative coatings of copper oxide for aerospace applications. Journal of Applied Physics, 2003, 94, 2110-2114.	2.5	16
28	Conduction type control and power factor enhancement of the thermoelectric material Al ₂ Fe ₃ Si ₃ . Journal of Physics and Chemistry of Solids, 2018, 118, 95-98.	4.0	16
29	Laser expulsion of an organic molecular nanojet from a spatially confined domain. Journal of Applied Physics, 2001, 90, 4755-4760.	2.5	15
30	Thermal boundary resistance at Au/Ge/Ge and Au/Si/Ge interfaces. RSC Advances, 2015, 5, 49703-49707.	3.6	15
31	Analysis of an anomalous vibrational dependence of the spin-rotation constants for AlO (X ² Σ ⁺). Chemical Physics Letters, 1994, 227, 293-298.	2.6	13
32	Formation of alumina fine particles by a magnetron sputtering Å– gas aggregation method. Zeitschrift für Physik D-Atoms Molecules and Clusters, 1997, 40, 115-118.	1.0	13
33	Control of frictional force on coating films of boron nitride–copper complex in ultra high vacuum. Thin Solid Films, 2002, 405, 300-303.	1.8	13
34	Reduction in Frictional Force of ZnO Coatings in a Vacuum. Japanese Journal of Applied Physics, 2008, 47, 8914.	1.5	13
35	The microwave spectrum of the NCl radical in the electronically excited (a ¹ π ^o) state. Journal of Chemical Physics, 1996, 104, 8865-8870.	3.0	12
36	Laser implantation of dicyanoanthracene in poly(methyl methacrylate) from a 100-nm aperture micropipette. Applied Surface Science, 2000, 154-155, 701-705.	6.1	12

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37	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
38	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
39	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
40	Micro-patterning of multiple organic molecules by laser implantation. <i>Applied Physics A: Materials Science and Processing</i> , 2004, 79, 157-160.	2.3	12
41	Low Frictional Coating of Copper Oxide with Preferred Crystal Orientation. <i>Tribology Letters</i> , 2004, 17, 51-54.	2.6	11
42	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
43	Development of a Frequency-Domain Method Using Completely Optical Techniques for Measuring the Interfacial Thermal Resistance between the Metal Film and the Substrate. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 106602.	1.5	11
44	Low frictional copper oxide film prepared with sodium hydroxide solution. <i>Surface and Interface Analysis</i> , 2004, 36, 1259-1261.	1.8	10
45	Development of a Frequency-Domain Method Using Completely Optical Techniques for Measuring the Interfacial Thermal Resistance between the Metal Film and the Substrate. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 106602.	1.5	10
46	Forward-transfer laser implantation of pyrene molecules in a solid polymer. <i>Applied Physics Letters</i> , 1998, 73, 1439-1441.	3.3	9
47	Implantation of Organic Molecules into Biotissue by Pulsed Laser Irradiation. <i>Japanese Journal of Applied Physics</i> , 1999, 38, L87-L88.	1.5	9
48	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
49	Process during laser implantation and ablation of Coumarin 6 in poly (butyl methacrylate) films. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006, 183, 292-296.	3.9	9
50	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
51	Laser implantation of molecular aggregates into poly (methyl methacrylate). <i>Applied Surface Science</i> , 1999, 138-139, 471-476.	6.1	8
52	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
53	Implantation of Perylene Molecules into Glass Plates through a Water Layer Using a Laser Induced Molecular Micro-Jet. <i>Japanese Journal of Applied Physics</i> , 2006, 45, L966-L969.	1.5	8
54	Ultra-low thermal conductivity of high-interface density Si/Ge amorphous multilayers. <i>Applied Physics Express</i> , 2018, 11, 045202.	2.4	8

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55	Identifying Optimal Strain in Bismuth Telluride Thermoelectric Film by Combinatorial Gradient Thermal Annealing and Machine Learning. ACS Combinatorial Science, 2020, 22, 782-790.	3.8	8
56	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
57	Generation of Novel Aluminum Nano Balls. Japanese Journal of Applied Physics, 1998, 37, L1537-L1539.	1.5	5
58	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
59	Molecular implantation using a laser-induced molecular micro-jet. Journal of Photochemistry and Photobiology A: Chemistry, 2008, 193, 42-49.	3.9	5
60	Growth of boron nitride nano islands on substrates, triggered by internal stress. Surface and Coatings Technology, 2003, 168, 98-101.	4.8	4
61	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
62	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
63	Laser Induced Molecular Micro-Jet Implantation of Perylene Molecules through Water or Diiodomethane Layers. Applied Physics Express, 2008, 1, 067010.	2.4	4
64	A New Technique for Enhancing Sensitivity of the 2 μ m Method by Applying a Bismuth Film Thermorefectance Sensor on Top of the Metal Film Dielectric Substrate Sample. Japanese Journal of Applied Physics, 2011, 50, 046602.	1.5	4
65	Effect of Nano Surface Roughness on Friction Coefficient of Stainless Steel.. Shinku/Journal of the Vacuum Society of Japan, 2002, 45, 361-364.	0.2	3
66	Synthesis of Polymer Nanowires by Pulsed Laser Irradiation. Applied Physics Express, 2009, 2, 065503.	2.4	3
67	Reduction of Friction Force by Light. Applied Physics Express, 2013, 6, 047202.	2.4	3
68	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
69	Micro-Patterned Organic Electroluminescent Devices. Japanese Journal of Applied Physics, 2008, 47, 1263-1265.	1.5	2
70	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
71	Frictional Property Depended on Crystal Preferred Orientation Analyzed by a Combinatorial Technique. Tribology Letters, 2014, 55, 289-293.	2.6	2
72	Control of Surface Properties of Thin Films of Hexagonal Boron Nitride-Copper Complex.. Shinku/Journal of the Vacuum Society of Japan, 2001, 44, 139-142.	0.2	2

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73	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
74	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
75	Control of pressure rise in a vacuum chamber by boron nitride and copper composite coating. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2003, 21, 1873-1876.	2.1	1
76	Silicon microstructure fabricated by laser micro-patterning method combined with wet etching process. Applied Surface Science, 2005, 241, 223-226.	6.1	1
77	Molecular Nanojet in Water. Applied Physics Express, 0, 2, 035007.	2.4	1
78	MoS ₂ sputtering coating for ultrahigh vacuum manipulation. Journal of Physics: Conference Series, 2013, 417, 012048.	0.4	1
79	Synthesis of Polystyrene Nanowires Doped with Iron Oxide Nanoparticles Using a Pulsed Laser. Applied Physics Express, 2013, 6, 045004.	2.4	1
80	Properties of Molecular Nanojets in Different Solutions. Japanese Journal of Applied Physics, 2013, 52, 110119.	1.5	1
81	A conductive polymer nanowire including functional quantum dots generated via pulsed laser irradiation for high-sensitivity sensor applications. Scientific Reports, 2021, 11, 11203.	3.3	1
82	A New Technique for Enhancing Sensitivity of the 2 μ m Method by Applying a Bismuth Film Thermoreflectance Sensor on Top of the Metal Film Dielectric Substrate Sample. Japanese Journal of Applied Physics, 2011, 50, 046602.	1.5	1
83	Nanotribological Property of Boron Nitride-Copper Complex Films. Shinku/Journal of the Vacuum Society of Japan, 2003, 46, 509-511.	0.2	1
84	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
85	Effect of Exposure in Orbit on Friction of Lubrica.... , 2005, , .		0
86	Micro and Nano Scale Organic Molecular Patterning by Laser Implantation Technique.. The Review of Laser Engineering, 2001, 29, 726-729.	0.0	0
87	Improvement of Frictional Property of Copper-Boron Nitride Complex by Excimer Laser Irradiation.. Shinku/Journal of the Vacuum Society of Japan, 2002, 45, 858-861.	0.2	0
88	Surface Fine Structure and Tribology for Complex Thin Films and Stainless Steel with Different Surface Roughness.. Shinku/Journal of the Vacuum Society of Japan, 2003, 46, 116-122.	0.2	0
89	Improvement of Pressure Stability in a Vacuum Chamber with h-BN/Cu Coating. Shinku/Journal of the Vacuum Society of Japan, 2003, 46, 253-256.	0.2	0
90	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

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91	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
92	Fabrication of Complex Nano Structure by Metal/Semiconductor Cluster Flux.. Journal of the Mass Spectrometry Society of Japan, 1997, 45, 137-157.	0.1	0