

Godai Miyaji

List of Publications by Year in descending order

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53
papers

1,126
citations

430874

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414414

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56
all docs

56
docs citations

56
times ranked

719
citing authors

#	ARTICLE	IF	CITATIONS
1	Origin of periodicity in nanostructuring on thin film surfaces ablated with femtosecond laser pulses. Optics Express, 2008, 16, 16265.	3.4	271
2	Mechanism of femtosecond-laser-induced periodic nanostructure formation on crystalline silicon surface immersed in water. Optics Express, 2012, 20, 14848.	3.4	115
3	Field-Free Alignment of Molecules Observed with High-Order Harmonic Generation. Physical Review Letters, 2005, 95, 243903.	7.8	98
4	Nanoscale ablation on patterned diamondlike carbon film with femtosecond laser pulses. Applied Physics Letters, 2007, 91, 123102.	3.3	73
5	Ultrafast dynamics of periodic nanostructure formation on diamondlike carbon films irradiated with femtosecond laser pulses. Applied Physics Letters, 2006, 89, 191902.	3.3	72
6	Nanograting formation through surface plasmon fields induced by femtosecond laser pulses. Journal of Applied Physics, 2013, 114, .	2.5	62
7	Origin of Anomalous Spectra of Dynamic Alignments Observed in N ₂ and O ₂ . Physical Review Letters, 2007, 98, 143001.	7.8	42
8	Intense longitudinal electric fields generated from transverse electromagnetic waves. Applied Physics Letters, 2004, 84, 3855-3857.	3.3	36
9	Periodic nanostructures on titanium dioxide film produced using femtosecond laser with wavelengths of 388 nm and 775 nm. Optics Express, 2014, 22, 14696.	3.4	33
10	Measurement of molecular rotational temperature in a supersonic gas jet with high-order harmonic generation. Optics Letters, 2009, 34, 1651.	3.3	31
11	Retrieving Angular Distributions of High-Order Harmonic Generation from a Single Molecule. Physical Review Letters, 2011, 106, 013904.	7.8	29
12	Nanograting formation on metals in air with interfering femtosecond laser pulses. Applied Physics Letters, 2015, 107, .	3.3	29
13	Fabrication of 50-nm period gratings on GaN in air through plasmonic near-field ablation induced by ultraviolet femtosecond laser pulses. Optics Express, 2016, 24, 4648.	3.4	29
14	Role of multiple shots of femtosecond laser pulses in periodic surface nanoablation. Applied Physics Letters, 2013, 103, .	3.3	25
15	Excitation of surface plasmon polaritons on silicon with an intense femtosecond laser pulse. Physical Review B, 2017, 96, .	3.2	23
16	Dynamic Properties of Angle-Dependent High-Order Harmonic Generation from Coherently Rotating Molecules. Physical Review Letters, 2008, 101, 183902.	7.8	22
17	Periodic Nanostructure Formation on Silicon Irradiated with Multiple Low-fluence Femtosecond Laser Pulses in Water. Physics Procedia, 2012, 39, 674-682.	1.2	21
18	Mechanism and control of periodic surface nanostructure formation with femtosecond laser pulses. Applied Physics A: Materials Science and Processing, 2014, 114, 177-185.	2.3	20

#	ARTICLE	IF	CITATIONS
19	Structural coloration of a stainless steel surface with homogeneous nanograting formed by femtosecond laser ablation. <i>Optical Materials Express</i> , 2019, 9, 2902.	3.0	19
20	Femtosecond-laser-induced nanostructure formation and surface modification of diamond-like carbon film. <i>Electrochimica Acta</i> , 2007, 53, 167-170.	5.2	12
21	Generation of Vector Beams with Axially-Symmetric Polarization. <i>The Review of Laser Engineering</i> , 2004, 32, 259-264.	0.0	10
22	Shaping of nanostructured surface in femtosecond laser ablation of thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 98, 927-930.	2.3	7
23	Fabrication of Periodic Nanostructures on Silicon Suboxide Films with Plasmonic Near-Field Ablation Induced by Low-Fluence Femtosecond Laser Pulses. <i>Nanomaterials</i> , 2020, 10, 1495.	4.1	7
24	Sub-100-nm periodic nanostructure formation induced by short-range surface plasmon polaritons excited with few-cycle laser pulses. <i>Journal of Applied Physics</i> , 2021, 130, .	2.5	7
25	Nanostructure Formation on Diamond-Like Carbon Films Induced with Few-Cycle Laser Pulses at Low Fluence from a Ti:Sapphire Laser Oscillator. <i>Nanomaterials</i> , 2018, 8, 535.	4.1	6
26	Nanostructuring of Silicon Surface with Femtosecond-Laser-Induced Near-field. <i>Journal of Laser Micro Nanoengineering</i> , 2012, 7, 198-201.	0.1	6
27	Reduced damping of surface plasmon polaritons on silicon with intense femtosecond laser pulse. <i>Japanese Journal of Applied Physics</i> , 2019, 58, 050916.	1.5	5
28	Reflectivity Change in Nanoscale Modification of DLC Film with Femtosecond Laser Pulses. <i>Journal of Laser Micro Nanoengineering</i> , 2007, 2, 146-151.	0.1	5
29	Control of Surface Shape in Nanostructure Formed with Femtosecond Laser Pulses. <i>Journal of Laser Micro Nanoengineering</i> , 2010, 5, 86-89.	0.1	4
30	Nanograting fabricated with femtosecond laser pulses. <i>SPIE Newsroom</i> , 0, , .	0.1	2
31	Probing molecular structure with alignment-dependent high-order harmonic generation. , 2009, , .		1
32	Nanostructure formation processes in femtosecond laser ablation of thin film surfaces. <i>Proceedings of SPIE</i> , 2009, , .	0.8	1
33	Observation of Surface Plasmon Polaritons excited on Si Transiently Metalized with An Intense Femtosecond Laser pulse. , 2021, , .		1
34	Nanostructuring with Femtosecond Laser Pulses on Patterned DLC Surface. <i>Journal of Laser Micro Nanoengineering</i> , 2008, 3, 84-87.	0.1	1
35	Ultrafast Dynamic Processes for Periodic Surface Nanostructure Formation Induced with Femtosecond Laser Pulses. <i>The Review of Laser Engineering</i> , 2013, 41, 816.	0.0	1
36	High-Order Harmonic Generation from Femtosecond Laser-Aligned Molecules. <i>Springer Series in Chemical Physics</i> , 2005, , 195-197.	0.2	0

#	ARTICLE	IF	CITATIONS
37	Femtosecond-laser-induced nanostructures on a patterned diamond-like carbon film. , 2007, , .		0
38	Ultrafast dynamics in strong-field interactions with molecules and solid surfaces: high-harmonic generation and nanostructuring. Proceedings of SPIE, 2010, , .	0.8	0
39	Nanostructuring of silicon surface with near-field enhanced in femtosecond laser ablation. , 2011, , .		0
40	Angle-dependent high-order harmonic generation from a single N ₂ and O ₂ molecule. , 2011, , .		0
41	Imprinting of a homogeneous nanograting with femtosecond laser ablation. , 2013, , .		0
42	Nanograting imprinted with femtosecond-laser-induced plasmonic near-field. , 2013, , .		0
43	Nanograting formation in air through plasmonic near-field ablation induced by femtosecond laser pulses. , 2017, , .		0
44	Nanostructure Formation on Silicon Suboxide with Plasmonic Near-Field Ablation Induced by Femtosecond Laser Pulses. , 2019, , .		0
45	High-order harmonic generation from ultrashort laser-pulse aligned molecules. The Review of Laser Engineering, 2007, 35, 93-94.	0.0	0
46	Angle-Dependent High-Order Harmonic Generation from Aligned N ₂ and O ₂ Molecules. The Review of Laser Engineering, 2008, 36, 294-298.	0.0	0
47	Nanostructuring Process in Femtosecond Laser Ablation of Patterned Thin Film Surfaces. The Review of Laser Engineering, 2008, 36, 1210-1213.	0.0	0
48	Rotational Temperature Measurements in a Molecular Beam with High-Order Harmonic Generation. Green Energy and Technology, 2010, , 161-165.	0.6	0
49	Nanoablation of Si surface with femtosecond-laser-induced plasmonic near-fields. , 2018, , .		0
50	Characterization of surface plasmons inducing nanoablation on nonmetallic materials excited with intense femtosecond laser pulses. , 2019, , .		0
51	Characteristics of Plasma Charged Protein Solution for Improvement of Cell Adhesion. The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2020, 2020.31, 1A12.	0.0	0
52	Journal of Smart Pr		0
53	Periodic Nanostructure Formation Induced by Short-range Surface Plasmon Polaritons Excited with Few-cycle Laser Pulses. IEEJ Transactions on Electronics, Information and Systems, 2022, 142, 454-459.	0.2	0