

Myeongkyu Lee

List of Publications by Year in descending order

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77
papers

1,259
citations

331670

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454955

30
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docs citations

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times ranked

1474
citing authors

#	ARTICLE	IF	CITATIONS
1	Laser-Induced Tuning and Spatial Control of the Emissivity of Phase-Changing Ge ₂ Sb ₂ Te ₅ Emitter for Thermal Camouflage. <i>Advanced Materials Technologies</i> , 2022, 7, .	5.8	12
2	Parallel Laser Printing of a Thermal Emission Pattern in a Phase-Change Thin Film Cavity for Infrared Camouflage and Security. <i>Laser and Photonics Reviews</i> , 2022, 16, .	8.7	17
3	Laser-Printed Emissive Metasurface as an Anticounterfeiting Platform. <i>Laser and Photonics Reviews</i> , 2022, 16, .	8.7	6
4	A hybrid dewetting approach to generate highly sensitive plasmonic silver nanoparticles with a narrow size distribution. <i>Applied Surface Science</i> , 2021, 542, 148613.	6.1	19
5	Angle-Insensitive Fabry-Perot Mechanochromic Sensor for Real-Time Structural Health Monitoring. <i>Advanced Materials Technologies</i> , 2021, 6, 2100118.	5.8	10
6	Colorimetric Detection of Mechanical Deformation in Metals using Thin-Film Mechanochromic Sensor. <i>Advanced Materials Technologies</i> , 2021, 6, 2100479.	5.8	5
7	Angle-Insensitive Fabry-Perot Mechanochromic Sensor for Real-Time Structural Health Monitoring (Adv. Mater. Technol. 8/2021). <i>Advanced Materials Technologies</i> , 2021, 6, 2170048.	5.8	0
8	Colorimetric Detection of Mechanical Deformation in Metals using Thin-Film Mechanochromic Sensor (Adv. Mater. Technol. 10/2021). <i>Advanced Materials Technologies</i> , 2021, 6, 2170061.	5.8	0
9	Mass printing of colored natural patterns on Al plate by roll imprinting and thin film deposition. <i>Journal of Materials Processing Technology</i> , 2020, 278, 116502.	6.3	3
10	High-purity reflective color filters based on thin film cavities embedded with an ultrathin Ge ₂ Sb ₂ Te ₅ absorption layer. <i>Nanoscale Advances</i> , 2020, 2, 4930-4937.	4.6	20
11	Broadband Visible and Near-Infrared Absorbers Implemented with Planar Nanolayered Stacks. <i>ACS Applied Nano Materials</i> , 2020, 3, 2978-2986.	5.0	25
12	Structural coloration of stainless steel with planar thin-film surface cavity structure. <i>Optical Materials</i> , 2020, 100, 109547.	3.6	4
13	Color Printing on Metals: Printing of Highly Vivid Structural Colors on Metal Substrates with a Metal-Dielectric Double Layer (Advanced Optical Materials 13/2019). <i>Advanced Optical Materials</i> , 2019, 7, 1970050.	7.3	5
14	Generation of Reflection Colors from Metal-Insulator-Metal Cavity Structure Enabled by Thickness-Dependent Refractive Indices of Metal Thin Film. <i>ACS Photonics</i> , 2019, 6, 2342-2349.	6.6	46
15	Surface plasmon resonance and coloration in stainless steel with a 2D periodic texture. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	2.3	2
16	Structural color printing with a dielectric layer coated on a nanotextured metal substrate: simulation and experiment. <i>Nanoscale Advances</i> , 2019, 1, 4090-4098.	4.6	5
17	Highly sensitive moisture sensor with a hydrogel film coated on surface-textured stainless steel. <i>Applied Surface Science</i> , 2019, 484, 1149-1153.	6.1	8
18	Printing of Highly Vivid Structural Colors on Metal Substrates with a Metal-Dielectric Double Layer. <i>Advanced Optical Materials</i> , 2019, 7, 1900196.	7.3	17

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19	Laser dewetting behaviors of Ag and Au thin films on glass and Si substrates: Experiments and theoretical considerations. <i>Applied Surface Science</i> , 2019, 475, 740-747.	6.1	25
20	Transformation of silver nanowires into nanoparticles by Rayleigh instability: Comparison between laser irradiation and heat treatment. <i>Applied Surface Science</i> , 2018, 427, 65-73.	6.1	34
21	Fabrication of Ag-Au bimetallic nanoparticles by laser-induced dewetting of bilayer films. <i>Applied Surface Science</i> , 2018, 434, 1293-1299.	6.1	64
22	Laser-Induced Dewetting of Metal Thin Films for Template-Free Plasmonic Color Printing. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 38368-38375.	8.0	25
23	Vivid structural colors produced on stainless steel. <i>Acta Materialia</i> , 2018, 159, 1-7.	7.9	14
24	Single-pulse transformation of Ag thin film into nanoparticles via laser-induced dewetting. <i>Applied Surface Science</i> , 2017, 399, 555-564.	6.1	39
25	Comparative analysis of serial and parallel laser patterning of Ag nanowire thin films. <i>Applied Surface Science</i> , 2017, 399, 617-623.	6.1	4
26	Improved light harvest in diffraction grating-embedded TiO ₂ nanoparticle film. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	2.3	5
27	Fabrication of 10 Åm-scale conductive Cu patterns by selective laser sintering of Cu complex ink. <i>Optics and Laser Technology</i> , 2017, 88, 128-133.	4.6	34
28	Grating-coupled surface plasmon resonance on bulk stainless steel. <i>Optics Express</i> , 2017, 25, 26939.	3.4	31
29	Fabrication of Invisible Ag Nanowire Electrode Patterns Based on Laser-Induced Rayleigh Instability. <i>Journal of Physical Chemistry C</i> , 2016, 120, 20471-20477.	3.1	19
30	Laser-Induced Conversion of Au Powders to Highly Stable Nanoparticles with a Narrow Size Distribution. <i>Journal of Physical Chemistry C</i> , 2016, 120, 13256-13262.	3.1	9
31	Laser-direct process of Cu nano-ink to coat highly conductive and adhesive metallization patterns on plastic substrate. <i>Optics and Lasers in Engineering</i> , 2016, 80, 12-16.	3.8	22
32	Performance enhancement of dye-sensitized solar cell with a TiCl ₄ -treated TiO ₂ compact layer. <i>Electronic Materials Letters</i> , 2015, 11, 271-275.	2.2	22
33	Effect of TiCl ₄ treatment on the refractive index of nanoporous TiO ₂ films. <i>Applied Surface Science</i> , 2015, 357, 659-665.	6.1	5
34	Laser micromachining of permalloy for fine metal mask. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2015, 2, 225-230.	4.9	32
35	Laser interference-driven fabrication of regular inverted-pyramid texture on mono-crystalline Si. <i>Microelectronic Engineering</i> , 2014, 130, 52-56.	2.4	6
36	Diffraction-Grating-Embedded Dye-Sensitized Solar Cells with Good Light Harvesting. <i>Advanced Energy Materials</i> , 2014, 4, 1300978.	19.5	17

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37	Microstructure and electrical property of laser-sintered Cu complex ink. Applied Surface Science, 2014, 307, 42-45.	6.1	36
38	Nanostructured TiO ₂ diffraction grating fabricated via imprinting and TiCl ₄ treatment. Journal of Materials Chemistry C, 2014, 2, 981-985.	5.5	12
39	Synthesis and characterization of Sm(DBM)3Phen-and Nd(DBM)3Phen-doped polymethylmethacrylate for potential solar spectrum converter. Electronic Materials Letters, 2014, 10, 783-786.	2.2	1
40	Mask-free fabrication of inverted-pyramid texture on single-crystalline Si wafer. Optics and Laser Technology, 2014, 63, 120-124.	4.6	19
41	Enhanced surface coverage and conductivity of Cu complex ink-coated films by laser sintering. Thin Solid Films, 2014, 564, 264-268.	1.8	14
42	Fabrication of honeycomb texture on poly-Si by laser interference and chemical etching. Applied Surface Science, 2013, 284, 565-568.	6.1	19
43	Flexible dye-sensitized solar cell fabricated on plastic substrate by laser-detachment and press method. Applied Surface Science, 2013, 270, 462-466.	6.1	16
44	Nanostructure and microripple formation on the surface of sapphire with femtosecond laser pulses. Journal of Applied Physics, 2012, 111, 093518.	2.5	15
45	Micro-scale patterning of indium tin oxide film by spatially modulated pulsed Nd:YAG laser beam. Applied Surface Science, 2012, 258, 9107-9111.	6.1	10
46	Comparative studies on thermal and laser sintering for highly conductive Cu films printable on plastic substrate. Thin Solid Films, 2012, 520, 2878-2883.	1.8	64
47	High-quality parallel patterning of carbon nanotube thin films by a pulsed laser beam. Thin Solid Films, 2012, 520, 3971-3974.	1.8	5
48	Laser sintering of Cu paste film printed on polyimide substrate. Applied Surface Science, 2011, 258, 521-524.	6.1	36
49	Laser treatment of solution-deposited carbon nanotube thin films for improved conductivity and transparency. Nanotechnology, 2011, 22, 265709.	2.6	7
50	Laser-induced Control of TiO ₂ Porosity for Enhanced Photovoltaic Behavior. Advanced Materials, 2011, 23, 3974-3978.	21.0	36
51	Multi-layered Ag film pattern printed by spatially modulated pulsed laser beam. Applied Surface Science, 2011, 257, 8013-8016.	6.1	2
52	Laser-assisted patterning of solution-processed oxide semiconductor thin film using a metal absorption layer. Microelectronic Engineering, 2011, 88, 6-10.	2.4	10
53	Large-area laser printing of Ag thick film pattern with stepwise edge morphology. Optics and Lasers in Engineering, 2010, 48, 380-384.	3.8	3
54	Laser-induced enhancement of the surface hardness of nanoparticulate TiO ₂ self-cleaning layer. Surface and Coatings Technology, 2010, 205, 372-376.	4.8	13

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55	Laser-driven high-resolution patterning of indium tin oxide thin film for electronic device. Optics and Lasers in Engineering, 2010, 48, 816-820.	3.8	24
56	Fabrication of Au thin film gratings by pulsed laser interference. Applied Surface Science, 2010, 256, 2944-2947.	6.1	11
57	Laser welding of nanoparticulate TiO ₂ and transparent conducting oxide electrodes for highly efficient dye-sensitized solar cell. Nanotechnology, 2010, 21, 345203.	2.6	38
58	Multilayered optical bit memory with a high signal-to-noise ratio in fluorescent polymethylmethacrylate. Applied Physics Letters, 2009, 94, .	3.3	25
59	Parallelized laser-direct patterning of nanocrystalline metal thin films by use of a pulsed laser-induced thermo-elastic force. Nanotechnology, 2009, 20, 245301.	2.6	22
60	Laser-direct photoetching of metal thin film for the electrode of transistor. Applied Physics Letters, 2009, 95, 071104.	3.3	15
61	Photoresist-free Lithographic Patterning of Solution-Processed Nanostructured Metal Thin Films. Advanced Materials, 2008, 20, 3457-3461.	21.0	27
62	Langmuir-Blodgett Ag nanoparticle monolayer patterned by pulsed laser-induced selective desorption. Superlattices and Microstructures, 2008, 44, 657-663.	3.1	4
63	Parallel laser printing of nanoparticulate silver thin film patterns for electronics. Applied Physics Letters, 2008, 92, 233107.	3.3	20
64	Optical patterning of silver nanoparticle Langmuir-Blodgett films. Journal of Applied Physics, 2007, 102, .	2.5	19
65	Crystalline patterning in Sm-doped sodium borate glass by CW Nd:YAG laser irradiation. Applied Surface Science, 2007, 254, 908-910.	6.1	5
66	Photochromic lens mirror-coated with Cr. Optical Materials, 2007, 30, 438-441.	3.6	4
67	Diffusion of Zn in stoichiometric LiTaO ₃ . Journal of Crystal Growth, 2004, 270, 568-572.	1.5	0
68	Effects of reduction treatment on the photorefractive properties of Pb _{0.5} Ba _{0.5} Nb ₂ O ₆ . Optical Materials, 2003, 21, 759-764.	3.6	2
69	Quasinondestructive Holographic Recording in Photochromic LiNbO ₃ . Physical Review Letters, 2000, 84, 875-878.	7.8	34
70	Enhanced photorefractive effects of cerium-doped lead barium niobate crystals. Journal of the Optical Society of America B: Optical Physics, 2000, 17, 542.	2.1	6
71	Growth of lead barium niobate (Pb _{1-x} Ba _x Nb ₂ O ₆) crystals by the vertical Bridgman method. Journal of Crystal Growth, 1998, 193, 355-363.	1.5	7
72	Electro-optic and photorefractive two-beam coupling properties of lead barium niobate crystals. Journal of Applied Physics, 1998, 83, 2826-2830.	2.5	4

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73	Photorefractive properties of tungsten bronze ferroelectric lead barium niobate ($\text{Pb}_{1-x}\text{Ba}_x\text{Nb}_2\text{O}_6$) crystals. Journal of Applied Physics, 1998, 83, 5967-5972.	2.5	19
74	Measurements of OH ⁻ absorption and proton activation in $\text{Pb}_{1-x}\text{Ba}_x\text{Nb}_2\text{O}_6$ crystals with applications to holographic storage. Physical Review B, 1997, 56, 7898-7904.	3.2	11
75	Optical properties of lead barium niobate ($\text{Pb}_{1-x}\text{Ba}_x\text{Nb}_2\text{O}_6$) crystals. Journal of Applied Physics, 1997, 81, 917-923.	2.5	12
76	Observation and thermal fixing of holographic gratings in lead barium niobate crystal. Optics Letters, 1997, 22, 187.	3.3	21
77	Photorefractive properties of $\text{Pb}_{0.5}\text{Ba}_{0.5}\text{Nb}_{2}\text{O}_6$ crystal. , 0, , .		0