

Jae Hyuck Yoo

List of Publications by Year in descending order

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46
papers

1,032
citations

471509

17
h-index

414414

32
g-index

48
all docs

48
docs citations

48
times ranked

1746
citing authors

#	ARTICLE	IF	CITATIONS
1	Channel Scaling Dependent Photoresponse of Copper-Based Flexible Photodetectors Fabricated Using Laser-Induced Oxidation. ACS Applied Materials & Interfaces, 2022, 14, 6977-6984.	8.0	1
2	Few-cycle optical field breakdown and damage of gallium oxide and gallium nitride. APL Materials, 2022, 10, .	5.1	3
3	Laser-Assisted Tailored Patterning of Au Nanoparticles over an Inch-Sized Area: Implications for Large Aperture Meta-optics. ACS Applied Nano Materials, 2022, 5, 10073-10080.	5.0	3
4	Laser-induced digital oxidation for copper-based flexible photodetectors. Applied Surface Science, 2021, 540, 148333.	6.1	10
5	Tuning Gold Nanoparticle Size with Fixed Interparticle Spacing in Large-Scale Arrays: Implications for Plasmonics and Nanoparticle Etching Masks. ACS Applied Nano Materials, 2021, 4, 2733-2742.	5.0	14
6	Large aperture and durable glass-engraved optical metasurfaces using nanoparticle etching masks: prospects and future directions. JPhys Photonics, 2021, 3, 032004.	4.6	5
7	Robust Metasurfaces with Tailored Graded Index for High Power Laser Applications. , 2021, , .		0
8	Laser-Induced Crystalline-Phase Transformation for Hematite Nanorod Photoelectrochemical Cells. ACS Applied Materials & Interfaces, 2020, 12, 48917-48927.	8.0	11
9	Additive Manufacturing of Optical Quality Germaniaâ€“Silica Glasses. ACS Applied Materials & Interfaces, 2020, 12, 6736-6741.	8.0	39
10	Coupling buried etalon layers to an engraved metasurface for durable and large-aperture meta-optics. Applied Optics, 2020, 59, 8136.	1.8	2
11	Substrate-engraved antireflective nanostructured surfaces for high-power laser applications. Optica, 2020, 7, 518.	9.3	19
12	A Survey of Transparent Conducting Films and Optoelectrical Materials for High Optical Power Applications. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1900459.	1.8	6
13	Scalable Light-Printing of Substrate-Engraved Free-Form Metasurfaces. ACS Applied Materials & Interfaces, 2019, 11, 22684-22691.	8.0	20
14	Enhanced Tunability of Gold Nanoparticle Size, Spacing, and Shape for Large-Scale Plasmonic Arrays. ACS Applied Nano Materials, 2019, 2, 4395-4401.	5.0	18
15	Physics of picosecond pulse laser ablation. Journal of Applied Physics, 2019, 125, 085103.	2.5	23
16	Optical modeling of random anti-reflective meta-surfaces for laser systems applications. Applied Optics, 2019, 58, 7558.	1.8	10
17	Rapid feedback of chemical vapor deposition growth mechanisms by operando X-ray diffraction. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2018, 36, 020601.	1.2	4
18	Lifetime laser damage performance of $\hat{\text{I}}^2\text{-Ga}_2\text{O}_3$ for high power applications. APL Materials, 2018, 6, .	5.1	24

#	ARTICLE	IF	CITATIONS
19	A simple, highly efficient route to electroless gold plating on complex 3D printed polyacrylate plastics. <i>Chemical Communications</i> , 2018, 54, 10463-10466.	4.1	18
20	Single Pass Laser Process for Super-Hydrophobic Flexible Surfaces with Micro/Nano Hierarchical Structures. <i>Materials</i> , 2018, 11, 1226.	2.9	15
21	Laser welding of vertically aligned carbon nanotube arrays on polymer workpieces. <i>Carbon</i> , 2017, 115, 688-693.	10.3	13
22	Thermally ruggedized ITO transparent electrode films for high power optoelectronics. <i>Optics Express</i> , 2017, 25, 25533.	3.4	19
23	Optical damage performance of conductive widegap semiconductors: spatial, temporal, and lifetime modeling. <i>Optical Materials Express</i> , 2017, 7, 202.	3.0	13
24	Optical and electrical properties of indium tin oxide films near their laser damage threshold. <i>Optical Materials Express</i> , 2017, 7, 817.	3.0	13
25	Efficient method for the measurement of lifetime optical damage performance of thin film coatings from laser damage size analysis. <i>Optics Letters</i> , 2017, 42, 3153.	3.3	6
26	Defect-induced optical breakdown in aluminum nitride and gallium nitride epitaxial films. , 2017, , .		0
27	Morphology and mechanisms of picosecond ablation of metal films on fused silica substrates. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0
28	Synthesis of Nanostructured/Macroscopic Low-Density Copper Foams Based on Metal-Coated Polymer Core-Shell Particles. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 34706-34714.	8.0	9
29	Femtosecond laser patterning, synthesis, defect formation, and structural modification of atomic layered materials. <i>MRS Bulletin</i> , 2016, 41, 1002-1008.	3.5	25
30	Laser damage mechanisms in conductive widegap semiconductor films. <i>Optics Express</i> , 2016, 24, 17616.	3.4	29
31	Nanosecond laser-induced damage of transparent conducting ITO film at 1064nm. , 2016, , .		0
32	Facile fabrication of a superhydrophobic cage by laser direct writing for site-specific colloidal self-assembled photonic crystal. <i>Nanotechnology</i> , 2016, 27, 145604.	2.6	19
33	Low-Cost Facile Fabrication of Flexible Transparent Copper Electrodes by Nanosecond Laser Ablation. <i>Advanced Materials</i> , 2015, 27, 2762-2767.	21.0	126
34	Laser-Induced Reductive Sintering of Nickel Oxide Nanoparticles under Ambient Conditions. <i>Journal of Physical Chemistry C</i> , 2015, 119, 6363-6372.	3.1	63
35	Directed dewetting of amorphous silicon film by a donut-shaped laser pulse. <i>Nanotechnology</i> , 2015, 26, 165303.	2.6	25
36	Facile fabrication of flexible all solid-state micro-supercapacitor by direct laser writing of porous carbon in polyimide. <i>Carbon</i> , 2015, 83, 144-151.	10.3	229

#	ARTICLE	IF	CITATIONS
37	Laser processing and in-situ diagnostics for crystallization: from thin films to nanostructures. Proceedings of SPIE, 2014, , .	0.8	0
38	Generation of single-crystalline domain in nano-scale silicon pillars by near-field short pulsed laser. Applied Physics A: Materials Science and Processing, 2014, 114, 277-285.	2.3	14
39	Laser-Induced Direct Graphene Patterning and Simultaneous Transferring Method for Graphene Sensor Platform. Small, 2013, 9, 4269-4275.	10.0	47
40	On Demand Shape-Selective Integration of Individual Vertical Germanium Nanowires on a Si(111) Substrate via Laser-Localized Heating. ACS Nano, 2013, 7, 2090-2098.	14.6	20
41	Localized planarization of optical damage using laser-based chemical vapor deposition. , 2013, , .		2
42	Laser-Assisted on Demand Growth of Semiconducting Nanowires. , 2013, , .		0
43	In Situ TEM Near-Field Optical Probing of Nanoscale Silicon Crystallization. Nano Letters, 2012, 12, 2524-2529.	9.1	49
44	Graphene folds by femtosecond laser ablation. Applied Physics Letters, 2012, 100, .	3.3	60
45	Laser-assisted nanoprocessing and growth of semiconductor nanostructures. , 2011, , .		0
46	Designer Metasurfaces for Antireflective Applications Enabled by Advanced Nanoparticle Technology. Advanced Optical Materials, 0, , 2200151.	7.3	6