

Dae-Geun Choi

List of Publications by Year in descending order

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118
papers

3,475
citations

126907

33
h-index

149698

56
g-index

118
all docs

118
docs citations

118
times ranked

4949
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancement of refractive index sensing for an infrared plasmonic metamaterial absorber with a nanogap. <i>Optics Express</i> , 2021, 29, 22796.	3.4	9
2	Fabrication of arrangement-controlled and vertically grown ZnO nanorods by metal nanotransfer printing. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 81, 385-392.	5.8	7
3	Dual nanotransfer printing for complementary plasmonic biosensors. <i>Nanotechnology</i> , 2019, 30, 385302.	2.6	4
4	Patterning of Functional Nanoparticles Using Solution-based Selective Surface Treatment Process. <i>Journal of the Korean Society for Precision Engineering</i> , 2019, 36, 1051-1057.	0.2	0
5	Oriented Grains with Preferred Low-Angle Grain Boundaries in Halide Perovskite Films by Pressure-Induced Crystallization. <i>Advanced Energy Materials</i> , 2018, 8, 1702369.	19.5	74
6	Shape-Controlled 3D Periodic Metal Nanostructures Fabricated via Nanowelding. <i>Small</i> , 2018, 14, 1703102.	10.0	20
7	Spontaneous Additive Nanopatterning from Solution Route Using Selective Wetting. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 26501-26509.	8.0	9
8	Plasmon-Enhanced Infrared Spectroscopy Based on Metamaterial Absorbers with Dielectric Nanopillars. <i>ACS Photonics</i> , 2018, 5, 3492-3498.	6.6	43
9	Shape-controlled fabrication of nanopatterned samarium-doped cerium oxide thin films using ultraviolet nanoimprint lithography. <i>Thin Solid Films</i> , 2017, 636, 552-557.	1.8	2
10	Effects of polymer surface energy on morphology and properties of silver nanowire fabricated via nanoimprint and E-beam evaporation. <i>Applied Surface Science</i> , 2017, 420, 429-438.	6.1	13
11	Covalent bonding-assisted nanotransfer lithography for the fabrication of plasmonic nano-optical elements. <i>Nanoscale</i> , 2017, 9, 14335-14346.	5.6	28
12	Fabrication of high aspect ratio nanogrid transparent electrodes via capillary assembly of Ag nanoparticles. <i>Nanoscale</i> , 2016, 8, 11217-11223.	5.6	26
13	Highly efficient and stable cupronickel nanomesh electrode for flexible organic photovoltaic devices. <i>Journal of Power Sources</i> , 2016, 331, 22-25.	7.8	22
14	Facile Fabrication of Silicon Nanotube Arrays and Their Application in Lithium-Ion Batteries. <i>Advanced Engineering Materials</i> , 2016, 18, 1349-1353.	3.5	25
15	A cupronickel-based micromesh film for use as a high-performance and low-voltage transparent heater. <i>Journal of Materials Chemistry A</i> , 2015, 3, 16621-16626.	10.3	75
16	13.2% efficiency Si nanowire/PEDOT:PSS hybrid solar cell using a transfer-imprinted Au mesh electrode. <i>Scientific Reports</i> , 2015, 5, 12093.	3.3	84
17	Rapid Low-Temperature 3D Integration of Silicon Nanowires on Flexible Substrates. <i>Small</i> , 2015, 11, 3995-4001.	10.0	2
18	A facile patterning of silver nanowires using a magnetic printing method. <i>Nanotechnology</i> , 2015, 26, 345301.	2.6	15

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19	Controlled Patterning of Vertical Silicon Structures Using Polymer Lithography and Wet Chemical Etching. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 4522-4529.	0.9	3
20	ITO-free highly bendable and efficient organic solar cells with Ag nanomesh/ZnO hybrid electrodes. <i>Journal of Materials Chemistry A</i> , 2015, 3, 65-70.	10.3	55
21	Nanoimprinted ZnO and ZnO Quantum Dots Embedded SiO ₂ Layers for Inverted Bulk Heterojunction Solar Cells. <i>Science of Advanced Materials</i> , 2015, 7, 1253-1257.	0.7	1
22	Interior-architected ZnO nanostructure for enhanced electrical conductivity via stepwise fabrication process. <i>Nanoscale Research Letters</i> , 2014, 9, 428.	5.7	8
23	Gold-coated silicon nanowire-graphene core-shell composite film as a polymer binder-free anode for rechargeable lithium-ion batteries. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014, 61, 204-209.	2.7	16
24	High-Durable AgNi Nanomesh Film for a Transparent Conducting Electrode. <i>Small</i> , 2014, 10, 3767-3774.	10.0	93
25	Enhanced Performance and Stability of Polymer BHJ Photovoltaic Devices from Dry Transfer of PEDOT:PSS. <i>ChemSusChem</i> , 2014, 7, 1957-1963.	6.8	23
26	Hysteresis and reversible red-shift in the reflectance spectra of single-layer porous silicon during exposure to various organic vapors. <i>Journal of the Korean Physical Society</i> , 2014, 64, 640-644.	0.7	2
27	Tailoring of the plasmonic and waveguide effect in bulk-heterojunction photovoltaic devices with ordered, nanopatterned structures. <i>Organic Electronics</i> , 2014, 15, 3120-3126.	2.6	3
28	Sub-100nm scale polymer transfer printing process for organic photovoltaic devices. <i>Solar Energy Materials and Solar Cells</i> , 2013, 109, 1-7.	6.2	7
29	Polymer-free Vertical Transfer of Silicon Nanowires and their Application to Energy Storage. <i>ChemSusChem</i> , 2013, 6, 2144-2148.	6.8	14
30	Layer-by-Layer All-Transfer-Based Organic Solar Cells. <i>Langmuir</i> , 2013, 29, 5377-5382.	3.5	22
31	Highly robust silicon nanowire/graphene core-shell electrodes without polymeric binders. <i>Nanoscale</i> , 2013, 5, 8986.	5.6	33
32	Superamphiphobic Surface by Nanotransfer Molding and Isotropic Etching. <i>Langmuir</i> , 2013, 29, 8070-8075.	3.5	87
33	Embossed superhydrophobic polymer surfaces with topological variances. <i>Macromolecular Research</i> , 2013, 21, 916-920.	2.4	8
34	Nanotransfer Molding of Free-Standing Nanowire and Porous Nanomembranes Suspended on Microtrenches. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 418-424.	8.0	3
35	Direct Nanoimprint of Metal Bilayer for Tunable Metal Photonic Properties. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 10MC09.	1.5	4
36	Effect of surface tension and coefficient of thermal expansion in 30 nm scale nanoimprinting with two flexible polymer molds. <i>Nanotechnology</i> , 2012, 23, 235303.	2.6	16

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37	Imprinted Pattern Profile-Dependent Optical Properties of Metal Nanostructures. Japanese Journal of Applied Physics, 2012, 51, 06FJ02.	1.5	0
38	Conformally direct imprinted inorganic surface corrugation for light extraction enhancement of light emitting diodes. Optics Express, 2012, 20, A713.	3.4	16
39	Surface plasmon-waveguide hybrid polymer light-emitting devices using hexagonal Ag dots. Optics Letters, 2012, 37, 761.	3.3	10
40	A Micro-System Based on Glass-Nanoporous Silicon for Optical Sensing of Organic Solvent Vapor. Journal of Nanoscience and Nanotechnology, 2012, 12, 4564-4569.	0.9	0
41	Polymer Solar Cells: Efficiency Increase in Flexible Bulk Heterojunction Solar Cells with a Nano-Patterned Indium Zinc Oxide Anode (Adv. Energy Mater. 11/2012). Advanced Energy Materials, 2012, 2, 1282-1282.	19.5	1
42	Rapid nanopatterning of zirconium dioxide via nanoprinting and microwave-assisted annealing. RSC Advances, 2012, 2, 11035.	3.6	7
43	Fabrication of ZrO ₂ nanopatterns for biomimetic antireflection by thermal nanoimprint lithography. Microelectronic Engineering, 2012, 100, 12-15.	2.4	16
44	Graphoepitaxy of Block-Copolymer Self-Assembly Integrated with Single-Step ZnO Nanoimprinting. Small, 2012, 8, 1563-1569.	10.0	36
45	Nanopatterning: Graphoepitaxy of Block-Copolymer Self-Assembly Integrated with Single-Step ZnO Nanoimprinting (Small 10/2012). Small, 2012, 8, 1458-1458.	10.0	1
46	Efficiency Increase in Flexible Bulk Heterojunction Solar Cells with a Nano-Patterned Indium Zinc Oxide Anode. Advanced Energy Materials, 2012, 2, 1319-1322.	19.5	40
47	Large-Area Nanotemplate Process and Its Application to Roll Imprint. Japanese Journal of Applied Physics, 2012, 51, 06FJ01.	1.5	2
48	Characterization of Adhesion Properties of a UV-Curable Nanoimprint Resin with Different Amounts of Release Agents. Journal of Adhesion, 2011, 87, 732-743.	3.0	0
49	Facile nanopatterning of zirconium dioxide films via direct ultraviolet-assisted nanoimprint lithography. Journal of Materials Chemistry, 2011, 21, 657-662.	6.7	35
50	Fabrication of nano-electrode arrays of free-standing carbon nanotubes on nano-patterned substrate by imprint method. Applied Surface Science, 2011, 257, 3063-3068.	6.1	9
51	Characterization of adhesion property between fused silica and thermoplastic polymer film in thermal nanoimprint lithography using a novel pull-off test. Microelectronic Engineering, 2011, 88, 855-860.	2.4	4
52	Optical characterization of anatase TiO ₂ films patterned by direct ultraviolet-assisted nanoimprint lithography. Microelectronic Engineering, 2011, 88, 923-928.	2.4	13
53	Optimized Film Processing of Nanosilver Colloids for Photoluminescence Enhancement. Journal of Nanoscience and Nanotechnology, 2011, 11, 422-426.	0.9	4
54	Fabrication and Photocatalytic Effects of Tungsten Trioxide Nano-Pattern Arrays. Materials Express, 2011, 1, 245-251.	0.5	5

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55	Pattern-Definable and Low Cost Fabrication of Nanopatterned Conducting Polymer Film on Flexible Substrates. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 5680-5684.	0.9	0
56	Nanosilver Colloids-Filled Photonic Crystal Arrays for Photoluminescence Enhancement. <i>Nanoscale Research Letters</i> , 2010, 5, 1590-1595.	5.7	13
57	Effect of the ordered 2D-dot nano-patterned anode for polymer solar cells. <i>Organic Electronics</i> , 2010, 11, 285-290.	2.6	30
58	Corrugated organic light emitting diodes for enhanced light extraction. <i>Organic Electronics</i> , 2010, 11, 711-716.	2.6	76
59	Active layer transfer by stamping technique for polymer solar cells: Synergistic effect of TiOx interlayer. <i>Organic Electronics</i> , 2010, 11, 599-603.	2.6	22
60	Unexpected solid-solid intermixing in a bilayer of poly(3-hexylthiophene) and [6,6]-phenyl C61-butyric acidmethyl ester via stamping transfer. <i>Organic Electronics</i> , 2010, 11, 1376-1380.	2.6	37
61	Fabrication of free-standing carbon nanotube electrode arrays on a quartz wafer. <i>Thin Solid Films</i> , 2010, 518, 6624-6629.	1.8	5
62	A Simple Soft Lithographic Nanopatterning of Gold on Gallium Arsenide via Galvanic Displacement. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 5020-5026.	0.9	6
63	Photovoltaic Devices with an Active Layer from a Stamping Transfer Technique: Single Layer Versus Double Layer. <i>Langmuir</i> , 2010, 26, 9584-9588.	3.5	38
64	Solution-processable polymer based photovoltaic devices with concentration graded bilayers made via composition control of a poly(3-hexylthiophene)/[6,6]-phenyl C61-butyric acidmethyl ester. <i>Journal of Materials Chemistry</i> , 2010, 20, 4910.	6.7	25
65	Fabrication of large area nanotemplate through nanosilver colloidal lithography. , 2010, , .		0
66	Photo-induced hybrid nanopatterning of titanium dioxide via direct imprint lithography. <i>Journal of Materials Chemistry</i> , 2010, 20, 1921.	6.7	40
67	Measurement of Surface Adhesion Force of Adhesion Promoter and Release Layer for UV-Nanoimprint Lithography. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 769-773.	0.9	12
68	Mass fabrication of resistive random access crossbar arrays by step and flash imprint lithography. <i>Nanotechnology</i> , 2009, 20, 445305.	2.6	7
69	Direct Imprinted Conductive Patterns using Nanosilver Colloid-Applied UV Curable Resist. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 06FH02.	1.5	7
70	Development of a very large-area ultraviolet imprint lithography process. <i>Microelectronic Engineering</i> , 2009, 86, 1983-1988.	2.4	14
71	Effect of surface treatments on interfacial adhesion energy between UV-curable resist and glass wafer. <i>International Journal of Adhesion and Adhesives</i> , 2009, 29, 662-669.	2.9	25
72	Direct imprint of conductive silver patterns using nanosilver particles and UV curable resin. <i>Microelectronic Engineering</i> , 2009, 86, 622-627.	2.4	12

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73	Nanosilver particles-based conductive patterns developed by direct soft imprint lithography. <i>Current Applied Physics</i> , 2009, 9, S138-S140.	2.4	5
74	Solution-processable polymer solar cells from a poly(3-hexylthiophene)/[6,6]-phenyl C61-butyric acidmethyl ester concentration graded bilayers. <i>Applied Physics Letters</i> , 2009, 95, 043505.	3.3	62
75	Fabrication of Plasma-induced Polymer Nanograss for a Synthetic Moth-eye Antireflection Nanostructure. <i>Journal of the Korean Physical Society</i> , 2009, 55, 566-571.	0.7	8
76	Nanoscopic Ordered Voids and Metal Caps by Controlled Trapping of Colloidal Particles at Polymeric Film Surfaces. <i>Advanced Materials</i> , 2008, 20, 4862-4867.	21.0	67
77	Patterned Colloidal Photonic Domes and Balls Derived from Viscous Photocurable Suspensions. <i>Advanced Materials</i> , 2008, 20, 3211-3217.	21.0	68
78	Direct soft UV-NIL with resist incorporating carbon nanotubes. <i>Microelectronic Engineering</i> , 2008, 85, 195-201.	2.4	11
79	A 4-in.-based single-step UV-NIL tool using a low vacuum environment and additive air pressure. <i>Microelectronic Engineering</i> , 2008, 85, 2304-2308.	2.4	4
80	Selective removal of metallic SWNTs using microwave radiation. <i>Current Applied Physics</i> , 2008, 8, 725-728.	2.4	36
81	UV-curable nanoimprint resin with enhanced anti-sticking property. <i>Applied Surface Science</i> , 2008, 254, 4793-4796.	6.1	42
82	Measurement of Adhesion Force by a Symmetric AFM Probe for Nano-imprint Lithography Application. <i>Journal of Adhesion Science and Technology</i> , 2008, 22, 1379-1386.	2.6	7
83	Micropatterning of thin P3HT films via plasma enhanced polymer transfer printing. <i>Journal of Materials Chemistry</i> , 2008, 18, 3489.	6.7	48
84	Control of the Area Density of Vertically Grown ZnO Nanowires by Blending PS- <i>b</i> -P4VP and PS- <i>b</i> -PAA Copolymer Micelles. <i>Chemistry of Materials</i> , 2008, 20, 6041-6047.	6.7	22
85	Resist Flow Behavior in Ultraviolet Nanoimprint Lithography as a Function of Contact Angle with Stamp and Substrate. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 8648-8651.	1.5	30
86	HYBRID NANOPATTERNING USING COLLOIDAL LITHOGRAPHY AND NANOIMPRINT FOR THE FABRICATION OF NANOTEMPLATE. <i>International Journal of Nanoscience</i> , 2008, 07, 73-79.	0.7	1
87	Direct UV-imprint lithography using conductive nanofiller-dispersed UV-curable resin. <i>Journal of Vacuum Science & Technology B</i> , 2008, 26, 1390.	1.3	4
88	Ultraviolet nanoimprinted polymer nanostructure for organic light emitting diode application. <i>Applied Physics Letters</i> , 2008, 92, 223307.	3.3	76
89	Effects of pattern size, dual side patterning, and imprint materials in the fabrication of antireflective structure using nanoimprint. , 2008, , .		0
90	Stamping-Based Planarization of Flexible Substrate for Low-Pressure UV Nanoimprint Lithography. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 5673-5677.	0.9	0

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91	Etch-less UV-NIL process for patterning photonic crystal structure onto OLED substrate. Proceedings of SPIE, 2008, , .	0.8	0
92	Ultra-violet nanoimprint lithography applicable to thin-film transistor liquid-crystal display. , 2007, , .		2
93	Adaptive bonding technique for precise assembly of three-dimensional microstructures. Applied Physics Letters, 2007, 90, 233109.	3.3	8
94	Replication of an UV-NIL stamp using DLC coating. Microelectronic Engineering, 2007, 84, 899-903.	2.4	7
95	Controlled Fabrication of Hollow Metal Pillar Arrays Using Colloidal Masks. Chemistry of Materials, 2006, 18, 6103-6105.	6.7	31
96	Patterned Arrays of Au Rings for Localized Surface Plasmon Resonance. Langmuir, 2006, 22, 7109-7112.	3.5	122
97	Fabrication of fluorine-doped diamond-like carbon stamps for UV nanoimprint lithography. Nanotechnology, 2006, 17, 4659-4663.	2.6	13
98	Nanoscale Pd Line Arrays Using Nanocontact Printed Dendrimers. Langmuir, 2006, 22, 3326-3331.	3.5	19
99	UV nanoimprint lithography using a diamond-like carbon stamp. , 2006, , .		5
100	Fabrication of Nano- and Micro-Scale UV Imprint Stamp Using Diamond-Like Carbon Coating Technology. Journal of Nanoscience and Nanotechnology, 2006, 6, 3619-3623.	0.9	5
101	Nanomachining by Colloidal Lithography. Small, 2006, 2, 458-475.	10.0	559
102	High-throughput step-and-repeat UV-nanoimprint lithography. Current Applied Physics, 2006, 6, e92-e98.	2.4	8
103	Multifaceted and Nanobored Particle Arrays Sculpted Using Colloidal Lithography. Advanced Functional Materials, 2006, 16, 33-40.	14.9	38
104	Ultraviolet-nanoimprint of 40 nm scale patterns using functionally modified fluorinated hybrid materials. Nanotechnology, 2006, 17, 3319-3324.	2.6	23
105	Fabrication of nano- and micro-scale UV imprint stamp using diamond-like carbon coating technology. Journal of Nanoscience and Nanotechnology, 2006, 6, 3619-23.	0.9	0
106	Controlled assembly of single SWNTs bundle using dielectrophoresis. Microelectronic Engineering, 2005, 81, 83-89.	2.4	94
107	Particle Arrays with Patterned Pores by Nanomachining with Colloidal Masks. Journal of the American Chemical Society, 2005, 127, 1636-1637.	13.7	50
108	Fluorinated Organic-Inorganic Hybrid Mold as a New Stamp for Nanoimprint and Soft Lithography. Langmuir, 2005, 21, 9390-9392.	3.5	65

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109	Magnetic nanodot arrays patterned by selective ion etching using block copolymer templates. <i>Nanotechnology</i> , 2004, 15, 970-974.	2.6	22
110	UV nanoimprint lithography using a large area stamp in a low vacuum environment. , 2004, , .		0
111	2D nano/micro hybrid patterning using soft/block copolymer lithography. <i>Materials Science and Engineering C</i> , 2004, 24, 213-216.	7.3	35
112	Nanopatterned Magnetic Metal via Colloidal Lithography with Reactive Ion Etching. <i>Chemistry of Materials</i> , 2004, 16, 4208-4211.	6.7	54
113	Two-Dimensional Polymer Nanopattern by Using Particle-Assisted Soft Lithography. <i>Chemistry of Materials</i> , 2004, 16, 3410-3413.	6.7	48
114	Colloidal Lithographic Nanopatterning via Reactive Ion Etching. <i>Journal of the American Chemical Society</i> , 2004, 126, 7019-7025.	13.7	183
115	Effect of two-step sol-gel reaction on the mesoporous silica structure. <i>Journal of Colloid and Interface Science</i> , 2003, 261, 127-132.	9.4	49
116	Arrays of Binary and Ternary Particles and Their Replica Pores on Patterned Microchannels. <i>Chemistry of Materials</i> , 2003, 15, 4169-4171.	6.7	15
117	Incorporation of CdS Nanoparticles Inside Ordered Mesoporous Silica SBA-15 via Ion Exchange. <i>Advanced Materials</i> , 2002, 14, 1311-1314.	21.0	68
118	Rheological analysis of the gelation behavior of tetraethylorthosilane/ vinyltriethoxysilane hybrid solutions. <i>Korean Journal of Chemical Engineering</i> , 2002, 19, 190-196.	2.7	37