

Ke Du

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

1,038
citations

471509

17
h-index

434195

31
g-index

36
all docs

36
docs citations

36
times ranked

1465
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid and Fully Microfluidic Ebola Virus Detection with CRISPR-Cas13a. <i>ACS Sensors</i> , 2019, 4, 1048-1054.	7.8	215
2	High-throughput and all-solution phase African Swine Fever Virus (ASFV) detection using CRISPR-Cas12a and fluorescence based point-of-care system. <i>Biosensors and Bioelectronics</i> , 2020, 154, 112068.	10.1	163
3	Simple Holographic Patterning for High Aspect Ratio Three Dimensional Nanostructures with Large Coverage Area. <i>Advanced Functional Materials</i> , 2013, 23, 608-618.	14.9	55
4	Galvanic Replacement Reaction: A Route to Highly Ordered Bimetallic Nanotubes. <i>Journal of Physical Chemistry C</i> , 2016, 120, 17652-17659.	3.1	52
5	Planar Arrays of Nanoporous Gold Nanowires: When Electrochemical Dealloying Meets Nanopatterning. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 6611-6620.	8.0	49
6	Large-area pattern transfer of metallic nanostructures on glass substrates via interference lithography. <i>Nanotechnology</i> , 2011, 22, 285306.	2.6	43
7	Stencil Lithography for Scalable Micro- and Nanomanufacturing. <i>Micromachines</i> , 2017, 8, 131.	2.9	43
8	Microfluidic System for Detection of Viral RNA in Blood Using a Barcode Fluorescence Reporter and a Photocleavable Capture Probe. <i>Analytical Chemistry</i> , 2017, 89, 12433-12440.	6.5	41
9	Challenges and Opportunities for Clustered Regularly Interspaced Short Palindromic Repeats Based Molecular Biosensing. <i>ACS Sensors</i> , 2021, 6, 2497-2522.	7.8	37
10	Wafer-Scale Pattern Transfer of Metal Nanostructures on Polydimethylsiloxane (PDMS) Substrates via Holographic Nanopatterns. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 5505-5514.	8.0	35
11	Transfer patterning of large-area graphene nanomesh via holographic lithography and plasma etching. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2014, 32, .	1.2	28
12	Integrated Micropillar Polydimethylsiloxane Accurate CRISPR Detection System for Viral DNA Sensing. <i>ACS Omega</i> , 2020, 5, 27433-27441.	3.5	28
13	Fabrication of polymer nanowires via maskless O_2 plasma etching. <i>Nanotechnology</i> , 2014, 25, 165301.	2.6	26
14	Nanotexturing of Conjugated Polymers via One-Step Maskless Oxygen Plasma Etching for Enhanced Tunable Wettability. <i>Langmuir</i> , 2017, 33, 6885-6894.	3.5	26
15	The Kirkendall Effect in Binary Alloys: Trapping Gold in Copper Oxide Nanoshells. <i>Chemistry of Materials</i> , 2015, 27, 6374-6384.	6.7	21
16	Manipulation of the Superhydrophobicity of Plasma-Etched Polymer Nanostructures. <i>Micromachines</i> , 2018, 9, 304.	2.9	19
17	Dual applications of free-standing holographic nanopatterns for lift-off and stencil lithography. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2012, 30, .	1.2	18
18	Large-Scale Fabrication of Porous Gold Nanowires via Laser Interference Lithography and Dealloying of Gold-Silver Nano-Alloys. <i>Micromachines</i> , 2017, 8, 168.	2.9	18

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19	Sub-10 nm patterning with DNA nanostructures: a short perspective. <i>Nanotechnology</i> , 2017, 28, 442501.	2.6	14
20	Self-formation of polymer nanostructures in plasma etching: mechanisms and applications. <i>Journal of Micromechanics and Microengineering</i> , 2018, 28, 014006.	2.6	14
21	Superhydrophobic waveguide: Liquid-core air-cladding waveguide platform for optofluidics. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	13
22	Controlling the Formation of Nanocavities in Kirkendall Nanoobjects through Sequential Thermal Ex Situ Oxidation and In Situ Reduction Reactions. <i>Small</i> , 2016, 12, 2885-2892.	10.0	12
23	Gold Nanoparticle-Labelled CRISPR-Cas13a Assay for the Sensitive Solid-State Nanopore Molecular Counting. <i>Advanced Materials Technologies</i> , 2022, 7, .	5.8	12
24	Fabrication of hierarchical nanostructures using free-standing trilayer membrane. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2013, 31, 06FF04.	1.2	11
25	Experimental and theoretical study on the microparticle trapping and release in a deformable nano-sieve channel. <i>Nanotechnology</i> , 2020, 31, 05LT01.	2.6	10
26	From nanocone to nanodisc: Structural transformation of gold nanoarrays via simple mechanical stresses. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2012, 30, 06FF10.	1.2	9
27	Selective hierarchical patterning of silicon nanostructures via soft nanostencil lithography. <i>Nanotechnology</i> , 2017, 28, 465303.	2.6	9
28	Single <i>Chlamydomonas reinhardtii</i> cell separation from bacterial cells and autofluorescence tracking with a nanosieve device. <i>Electrophoresis</i> , 2021, 42, 95-102.	2.4	7
29	3-D nanofabrication using nanostructured photoresist film as free-standing applique; , 2012, , .		4
30	Perspective of Molecular Diagnosis in Healthcare: From Barcode to Pattern Recognition. <i>Diagnostics</i> , 2019, 9, 75.	2.6	2
31	Freestanding Photoresist Film: A Versatile Template for Three-Dimensional Micro- and Nanofabrication. <i>Advanced Functional Materials</i> , 2020, 30, 2004129.	14.9	2
32	Hollow Nanostructures: Highly Ordered Hollow Oxide Nanostructures: The Kirkendall Effect at the Nanoscale (<i>Small</i> 17/2013). <i>Small</i> , 2013, 9, 2837-2837.	10.0	1
33	Photoresist Films: Freestanding Photoresist Film: A Versatile Template for Three-Dimensional Micro- and Nanofabrication (<i>Adv. Funct. Mater.</i> 42/2020). <i>Advanced Functional Materials</i> , 2020, 30, 2070277.	14.9	1
34	Fabrication of highly ordered hollow oxide nanostructures based on nanoscale Kirkendall effect and ostwald ripening. , 2013, , .		0