

Jung-Sub Wi

List of Publications by Year in descending order

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56
papers

853
citations

430843

18
h-index

526264

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59
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59
docs citations

59
times ranked

1274
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly robust, uniform and ultra-sensitive surface-enhanced Raman scattering substrates for microRNA detection fabricated by using silver nanostructures grown in gold nanobowls. <i>Nanoscale</i> , 2018, 10, 3680-3687.	5.6	53
2	Porous gold nanodisks with multiple internal hot spots. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 9131.	2.8	48
3	Plasmons in nanoscale and atomic-scale systems. <i>Science and Technology of Advanced Materials</i> , 2010, 11, 054506.	6.1	47
4	Phase separation behavior of Ge ₂ Sb ₂ Te ₅ line structure during electrical stress biasing. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	44
5	Germanium-on-Nothing for Epitaxial Liftoff of GaAs Solar Cells. <i>Joule</i> , 2019, 3, 1782-1793.	24.0	41
6	Facile three-dimensional nanoarchitecturing of double-bent gold strips on roll-to-roll nanoimprinted transparent nanogratings for flexible and scalable plasmonic sensors. <i>Nanoscale</i> , 2017, 9, 1398-1402.	5.6	39
7	Stacked Gold Nanodisks for Bimodal Photoacoustic and Optical Coherence Imaging. <i>ACS Nano</i> , 2017, 11, 6225-6232.	14.6	36
8	Discrimination of single nucleotide mismatches using a scalable, flexible, and transparent three-dimensional nanostructure-based plasmonic miRNA sensor with high sensitivity. <i>Biosensors and Bioelectronics</i> , 2018, 113, 39-45.	10.1	36
9	Sombrero-Shaped Plasmonic Nanoparticles with Molecular-Level Sensitivity and Multifunctionality. <i>ACS Nano</i> , 2011, 5, 6449-6457.	14.6	32
10	Strongly Enhanced THz Emission caused by Localized Surface Charges in Semiconducting Germanium Nanowires. <i>Scientific Reports</i> , 2013, 3, 1984.	3.3	32
11	Fabrication of Silicon Nanopillar Teradot Arrays by Electron Beam Patterning for Nanoimprint Molds. <i>Small</i> , 2008, 4, 2118-2122.	10.0	31
12	Electric-Field-Induced Mass Movement of Ge ₂ Sb ₂ Te ₅ in Bottleneck Geometry Line Structures. <i>Electrochemical and Solid-State Letters</i> , 2009, 12, H155.	2.2	28
13	Physically-synthesized gold nanoparticles containing multiple nanopores for enhanced photothermal conversion and photoacoustic imaging. <i>Nanoscale</i> , 2016, 8, 15514-15520.	5.6	26
14	Electron Beam Projection Nanopatterning Using Crystal Lattice Images Obtained from High Resolution Transmission Electron Microscopy. <i>Advanced Materials</i> , 2007, 19, 4189-4193.	21.0	25
15	Intraocular application of gold nanodisks optically tuned for optical coherence tomography: inhibitory effect on retinal neovascularization without unbearable toxicity. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017, 13, 1901-1911.	3.3	24
16	Fabrication of planar, layered nanoparticles using tri-layer resist templates. <i>Nanotechnology</i> , 2011, 22, 185302.	2.6	22
17	Gold Nanoparticle-Enhanced and Roll-to-Roll Nanoimprinted LSPR Platform for Detecting Interleukin-10. <i>Frontiers in Chemistry</i> , 2020, 8, 285.	3.6	22
18	Two-step resist-development process of hydrogen silsesquioxane for high-density electron-beam nanopatterning. <i>Journal of Vacuum Science & Technology B</i> , 2009, 27, 188.	1.3	21

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19	Surfactant-free galvanic replacement for synthesis of raspberry-like silver nanostructure pattern with multiple hot-spots as sensitive and reproducible SERS substrates. <i>Applied Surface Science</i> , 2020, 505, 144548.	6.1	18
20	Quantitative Analysis of Immunosuppressive Drugs Using Tungsten Disulfide Nanosheet-Assisted Laser Desorption Ionization Mass Spectrometry. <i>ACS Nano</i> , 2021, 15, 10141-10152.	14.6	16
21	Size-controlled synthesis, characterization, and cytotoxicity study of monodisperse poly(dimethylsiloxane) nanoparticles. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 53, 177-182.	5.8	14
22	Inkjet-Printable Nanoporous Ag Disk Arrays Enabling Coffee-Ring Effect-Driven Analyte Enrichment Towards Practical SERS Applications. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2022, 9, 421-429.	4.9	14
23	Sensitivity Characteristics of Positive and Negative Resists at 200 kV Electron-Beam Lithography. <i>Japanese Journal of Applied Physics</i> , 2005, 44, L95-L97.	1.5	13
24	Electron-Beam Lithography Patterning of Ge ₂ Sb ₂ Te ₅ Nanostructures Using Hydrogen Silsesquioxane and Amorphous Si Intermediate Layer. <i>Journal of the Electrochemical Society</i> , 2007, 154, H844.	2.9	11
25	Guided formation of sub-5 nm interstitial gaps between plasmonic nanodisks. <i>Nanoscale</i> , 2015, 7, 8338-8342.	5.6	11
26	Guided Formation of a Sub-10-nm Silicide Dot Array on an Area Patterned by Electron-Beam Lithography. <i>Advanced Materials</i> , 2007, 19, 3469-3472.	21.0	10
27	Raman-Active Two-Tiered Ag Nanoparticles with a Concentric Cavity. <i>Small</i> , 2011, 7, 3276-3280.	10.0	10
28	A Semitransparent and Flexible Single Crystal Si Thin Film: Silicon on Nothing (SON) Revisited. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 18962-18968.	8.0	10
29	Electron-beam lithography of Co-Pd multilayer with hydrogen silsesquioxane and amorphous Si intermediate layer. <i>Journal of Vacuum Science & Technology B</i> , 2006, 24, 2616.	1.3	9
30	Nanoparticles inside nanodishes for plasmon excitations. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	9
31	Arrays of Nanoscale Gold Dishes Containing Engineered Substructures. <i>Advanced Optical Materials</i> , 2013, 1, 814-818.	7.3	8
32	Facile Fabrication of Silver Nanoclusters as Promising Surface-Enhanced Raman Scattering Substrates. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 2245-2251.	0.9	8
33	Active Accumulation of Spherical Analytes on Plasmonic Hot Spots of Double-Bent Au Strip Arrays by Multiple Dip-Coating. <i>Nanomaterials</i> , 2019, 9, 660.	4.1	7
34	Fabrication of multilayered Co/Pd nano-dot array with an areal density of 1tera-dot/in ² . <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 2585-2588.	2.3	6
35	Analyte-Induced Desert Rose-like Ag Nanostructures for Surface-Enhanced Raman Scattering-Based Biomolecule Detection and Imaging. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 58393-58400.	8.0	6
36	The fabrication scheme of a high resolution and high aspect ratio UV-nanoimprint mold. <i>Nanotechnology</i> , 2009, 20, 495303.	2.6	5

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37	Gradual pressure release for reliable nanoimprint lithography. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2011, 29, .	1.2	5
38	Size-dependent detection sensitivity of spherical particles sitting on a double-bent gold strip array. Optical Materials Express, 2018, 8, 1774.	3.0	5
39	Hierarchical Silver Network Transparent Conducting Electrodes for Thin-Film Solar Cells. ACS Applied Electronic Materials, 2022, 4, 823-830.	4.3	5
40	High Speed Phase Change Random Access Memory with (Ge ₁ Sb ₂ Te ₄) _{0.9} (Sn ₁ Bi ₂ Te ₄) _{0.1} Complete Solid Solution. Japanese Journal of Applied Physics, 2007, 46, 5719-5723.	1.5	4
41	Method of improving the quality of nanopatterning in atomic image projection electron-beam lithography. Journal of Vacuum Science & Technology B, 2009, 27, 2553.	1.3	4
42	Three-tiered Au nano-disk array for broadband interaction with light. Nanoscale, 2012, 4, 2847.	5.6	4
43	Rational designing of nanoporous nanopattern arrays of Au, Pt and SiO ₂ : synthesis using lithography, sputtering and selective dissolution. Journal of Materials Chemistry A, 2013, 1, 330-336.	10.3	4
44	Enhanced two-photon luminescence from nanoporous gold capped with microcontact-printed salts. Physica Status Solidi - Rapid Research Letters, 2014, 8, 52-55.	2.4	4
45	Characterization and application of porous gold nanoparticles as two-photon luminescence imaging agents: 20-fold brighter than gold nanorods. Journal of Biophotonics, 2018, 11, e201700174.	2.3	3
46	Tailoring cubic and dodecagonal quasicrystalline mesophases of mesoporous organosilica nanoparticles and core/shell structure. Materials Science and Engineering C, 2019, 98, 666-674.	7.3	3
47	Au Nanohole-Nanodisk Hybrid Array for Plasmonic Sensing. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000358.	2.4	3
48	Easy-to-make-and-use gold nanotrench arrays for surface-enhanced Raman scattering. Optical Materials Express, 2021, 11, 3363.	3.0	3
49	Au/Si Bilayer Nanodisks with Tunable Localized Surface Plasmon Resonance for Optical Coherence Tomography in the Second Near-Infrared Window. Advanced Photonics Research, 2022, 3, .	3.6	3
50	Formation of in situ HVPE a-plane GaN nanodots: effects on the structural properties of a-plane GaN templates. CrystEngComm, 2018, 20, 4036-4041.	2.6	2
51	Nanoplasmonic Sensor Chip Readable in a Conventional Plate Reader. Biochip Journal, 0, , .	4.9	2
52	Silicon nano-well arrays for reliable pattern transfer and locally confined high temperature reactions. Nanotechnology, 2011, 22, 305304.	2.6	1
53	Lithographically-prepared gold nanobowls to detect mesoscale target analytes. Optical Materials Express, 2020, 10, 3185.	3.0	1
54	Enhanced detection sensitivity through enzyme-induced precipitate accumulation in LSPR-active nano-valleys. RSC Advances, 2022, 12, 15652-15657.	3.6	1

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55	Electron beam projection nanopatterning using crystal lattice images obtained from high resolution transmission electron microscopy. , 2009, , .		0
56	Topographically controlled growth of silver nanoparticle clusters. Physica Status Solidi - Rapid Research Letters, 2012, 6, 202-204.	2.4	0