

# Jung-Sub Wi

## List of Publications by Citations

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55  
papers

658  
citations

17  
h-index

23  
g-index

59  
ext. papers

767  
ext. citations

6.7  
avg, IF

3.77  
L-index

#	Paper	IF	Citations
55	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> , <b>2018</b> , 10, 3680-3687	7.7	45
54	Plasmons in nanoscale and atomic-scale systems. <i>Science and Technology of Advanced Materials</i> , <b>2010</b> , 11, 054506	7.1	42
53	Porous gold nanodisks with multiple internal hot spots. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 9131-6	3.6	41
52	Phase separation behavior of Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> line structure during electrical stress biasing. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 111913	3.4	35
51	Sombrero-shaped plasmonic nanoparticles with molecular-level sensitivity and multifunctionality. <i>ACS Nano</i> , <b>2011</b> , 5, 6449-57	16.7	30
50	Stacked Gold Nanodisks for Bimodal Photoacoustic and Optical Coherence Imaging. <i>ACS Nano</i> , <b>2017</b> , 11, 6225-6232	16.7	29
49	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> , <b>2018</b> , 113, 39-45	11.8	28
48	Strongly enhanced THz emission caused by localized surface charges in semiconducting Germanium nanowires. <i>Scientific Reports</i> , <b>2013</b> , 3, 1984	4.9	28
47	Fabrication of silicon nanopillar teradot arrays by electron-beam patterning for nanoimprint molds. <i>Small</i> , <b>2008</b> , 4, 2118-22	11	27
46	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> , <b>2017</b> , 9, 1398-1402	7.7	25
45	Electric-Field-Induced Mass Movement of Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> in Bottleneck Geometry Line Structures. <i>Electrochemical and Solid-State Letters</i> , <b>2009</b> , 12, H155		25
44	Physically-synthesized gold nanoparticles containing multiple nanopores for enhanced photothermal conversion and photoacoustic imaging. <i>Nanoscale</i> , <b>2016</b> , 8, 15514-20	7.7	23
43	Fabrication of planar, layered nanoparticles using tri-layer resist templates. <i>Nanotechnology</i> , <b>2011</b> , 22, 185302	3.4	20
42	Two-step resist-development process of hydrogen silsesquioxane for high-density electron-beam nanopatterning. <i>Journal of Vacuum Science &amp; Technology B</i> , <b>2009</b> , 27, 188		20
41	Germanium-on-Nothing for Epitaxial Liftoff of GaAs Solar Cells. <i>Joule</i> , <b>2019</b> , 3, 1782-1793	27.8	19
40	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> , <b>2017</b> , 13, 1901-1911	6	18
39	Electron Beam Projection Nanopatterning Using Crystal Lattice Images Obtained from High Resolution Transmission Electron Microscopy. <i>Advanced Materials</i> , <b>2007</b> , 19, 4189-4193	24	18

38	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> , <b>2020</b> , 505, 144548	6.7	16
37	Guided formation of sub-5 nm interstitial gaps between plasmonic nanodisks. <i>Nanoscale</i> , <b>2015</b> , 7, 8338-427	4.7	11
36	Gold Nanoparticle-Enhanced and Roll-to-Roll Nanoimprinted LSPR Platform for Detecting Interleukin-10. <i>Frontiers in Chemistry</i> , <b>2020</b> , 8, 285	5	11
35	Sensitivity Characteristics of Positive and Negative Resists at 200 kV Electron-Beam Lithography. <i>Japanese Journal of Applied Physics</i> , <b>2005</b> , 44, L95-L97	1.4	11
34	Raman-active two-tiered Ag nanoparticles with a concentric cavity. <i>Small</i> , <b>2011</b> , 7, 3276-80	11	10
33	Nanoparticles inside nanodishes for plasmon excitations. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 203102	3.4	9
32	Guided Formation of a Sub-10 nm Silicide Dot Array on an Area Patterned by Electron-Beam Lithography. <i>Advanced Materials</i> , <b>2007</b> , 19, 3469-3472	24	9
31	Electron-Beam Lithography Patterning of Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> Nanostructures Using Hydrogen Silsesquioxane and Amorphous Si Intermediate Layer. <i>Journal of the Electrochemical Society</i> , <b>2007</b> , 154, H844	3.9	9
30	A Semitransparent and Flexible Single Crystal Si Thin Film: Silicon on Nothing (SON) Revisited. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 18962-8	9.5	8
29	Arrays of Nanoscale Gold Dishes Containing Engineered Substructures. <i>Advanced Optical Materials</i> , <b>2013</b> , 1, 814-818	8.1	8
28	Electron-beam lithography of Co/Bd multilayer with hydrogen silsesquioxane and amorphous Si intermediate layer. <i>Journal of Vacuum Science &amp; Technology B</i> , <b>2006</b> , 24, 2616		8
27	Size-controlled synthesis, characterization, and cytotoxicity study of monodisperse poly(dimethylsiloxane) nanoparticles. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2017</b> , 53, 177-182	6.3	7
26	Facile fabrication of silver nanoclusters as promising surface-enhanced Raman scattering substrates. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2014</b> , 14, 2245-51	1.3	7
25	Fabrication of multilayered Co/Pd nano-dot array with an areal density of 1tera-dot/in <sup>2</sup> . <i>Journal of Magnetism and Magnetic Materials</i> , <b>2010</b> , 322, 2585-2588	2.8	6
24	The fabrication scheme of a high resolution and high aspect ratio UV-nanoimprint mold. <i>Nanotechnology</i> , <b>2009</b> , 20, 495303	3.4	5
23	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> , <b>2017</b> , 1, 1-6	3.8	5
22	Enhanced two-photon luminescence from nanoporous gold capped with microcontact-printed salts. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2014</b> , 8, 52-55	2.5	4
21	Gradual pressure release for reliable nanoimprint lithography. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2011</b> , 29, 033001	1.3	4

20	High Speed Phase Change Random Access Memory with (Ge <sub>1</sub> Sb <sub>2</sub> Te <sub>4</sub> ) <sub>0.9</sub> (Sn <sub>1</sub> Bi <sub>2</sub> Te <sub>4</sub> ) <sub>0.1</sub> Complete Solid Solution. <i>Japanese Journal of Applied Physics</i> , <b>2007</b> , 46, 5719-5723	1.4	4
19	Quantitative Analysis of Immunosuppressive Drugs Using Tungsten Disulfide Nanosheet-Assisted Laser Desorption Ionization Mass Spectrometry. <i>ACS Nano</i> , <b>2021</b> , 15, 10141-10152	16.7	4
18	Characterization and application of porous gold nanoparticles as 2-photon luminescence imaging agents: 20-fold brighter than gold nanorods. <i>Journal of Biophotonics</i> , <b>2018</b> , 11, e201700174	3.1	3
17	Size-dependent detection sensitivity of spherical particles sitting on a double-bent gold strip array. <i>Optical Materials Express</i> , <b>2018</b> , 8, 1774	2.6	3
16	Rational designing of nanoporous nanopattern arrays of Au, Pt and SiO <sub>2</sub> : synthesis using lithography, sputtering and selective dissolution. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 330-336	13	3
15	Optimal DNA structure of reverse-hairpin beacons for label-free and positive surface enhanced Raman scattering assays. <i>Optical Materials Express</i> , <b>2017</b> , 7, 2352	2.6	3
14	Three-tiered Au nano-disk array for broadband interaction with light. <i>Nanoscale</i> , <b>2012</b> , 4, 2847-50	7.7	3
13	Method of improving the quality of nanopatterning in atomic image projection electron-beam lithography. <i>Journal of Vacuum Science &amp; Technology B</i> , <b>2009</b> , 27, 2553		3
12	Active Accumulation of Spherical Analytes on Plasmonic Hot Spots of Double-Bent Au Strip Arrays by Multiple Dip-Coating. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	2
11	Au Nanohole/Nanodisk Hybrid Array for Plasmonic Sensing. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2020</b> , 14, 2000358	2.5	2
10	Tailoring cubic and dodecagonal quasicrystalline mesophases of mesoporous organosilica nanoparticles and core/shell structure. <i>Materials Science and Engineering C</i> , <b>2019</b> , 98, 666-674	8.3	1
9	Optimal DNA structure of reverse-hairpin beacons for label-free and positive surface enhanced Raman scattering assays: retraction. <i>Optical Materials Express</i> , <b>2017</b> , 7, 3136	2.6	1
8	Silicon nano-well arrays for reliable pattern transfer and locally confined high temperature reactions. <i>Nanotechnology</i> , <b>2011</b> , 22, 305304	3.4	1
7	Analyte-Induced Desert Rose-like Ag Nanostructures for Surface-Enhanced Raman Scattering-Based Biomolecule Detection and Imaging. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> ,	9.5	1
6	Formation of in situ HVPE a-plane GaN nanodots: effects on the structural properties of a-plane GaN templates. <i>CrystEngComm</i> , <b>2018</b> , 20, 4036-4041	3.3	1
5	Au/Si Bilayer Nanodisks with Tunable Localized Surface Plasmon Resonance for Optical Coherence Tomography in the Second Near-Infrared Window. <i>Advanced Photonics Research</i> , <b>2022</b> , 3, 2100162	1.9	1
4	Lithographically-prepared gold nanobowls to detect mesoscale target analytes. <i>Optical Materials Express</i> , <b>2020</b> , 10, 3185	2.6	0
3	Easy-to-make-and-use gold nanotrench arrays for surface-enhanced Raman scattering. <i>Optical Materials Express</i> , <b>2021</b> , 11, 3363	2.6	0

- 2 Topographically controlled growth of silver nanoparticle clusters. *Physica Status Solidi - Rapid Research Letters*, **2012**, 6, 202-204 2.5
- 1 Enhanced detection sensitivity through enzyme-induced precipitate accumulation in LSPR-active nano-valleys. *RSC Advances*, **2022**, 12, 15652-15657 3.7