Jung-Sub Wi

List of Publications by Year in Descending Order

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	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, 2100162	1.9	1
54	Enhanced detection sensitivity through enzyme-induced precipitate accumulation in LSPR-active nano-valleys. *RSC Advances*, **2022**, 12, 15652-15657	3.7	
53	Analyte-Induced Desert Rose-like Ag Nanostructures for Surface-Enhanced Raman Scattering-Based Biomolecule Detection and Imaging. *ACS Applied Materials & Interfaces*, **2021**,	9.5	1
52	Quantitative Analysis of Immunosuppressive Drugs Using Tungsten Disulfide Nanosheet-Assisted Laser Desorption Ionization Mass Spectrometry. *ACS Nano*, **2021**, 15, 10141-10152	16.7	4
51	Easy-to-make-and-use gold nanotrench arrays for surface-enhanced Raman scattering. *Optical Materials Express*, **2021**, 11, 3363	2.6	0
50	Gold Nanoparticle-Enhanced and Roll-to-Roll Nanoimprinted LSPR Platform for Detecting Interleukin-10. *Frontiers in Chemistry*, **2020**, 8, 285	5	11
49	Lithographically-prepared gold nanobowls to detect mesoscale target analytes. *Optical Materials Express*, **2020**, 10, 3185	2.6	0
48	Surfactant-free galvanic replacement for synthesis of raspberry-like silver nanostructure pattern with multiple hot-spots as sensitive and reproducible SERS substrates. *Applied Surface Science*, **2020**, 505, 144548	6.7	16
47	Au Nanohole–Nanodisk Hybrid Array for Plasmonic Sensing. *Physica Status Solidi - Rapid Research Letters*, **2020**, 14, 2000358	2.5	2
46	Tailoring cubic and dodecagonal quasicrystalline mesophases of mesoporous organosilica nanoparticles and core/shell structure. *Materials Science and Engineering C*, **2019**, 98, 666-674	8.3	1
45	Active Accumulation of Spherical Analytes on Plasmonic Hot Spots of Double-Bent Au Strip Arrays by Multiple Dip-Coating. *Nanomaterials*, **2019**, 9,	5.4	2
44	Germanium-on-Nothing for Epitaxial Liftoff of GaAs Solar Cells. *Joule*, **2019**, 3, 1782-1793	27.8	19
43	Highly robust, uniform and ultra-sensitive surface-enhanced Raman scattering substrates for microRNA detection fabricated by using silver nanostructures grown in gold nanobowls. *Nanoscale*, **2018**, 10, 3680-3687	7.7	45
42	Discrimination of single nucleotide mismatches using a scalable, flexible, and transparent three-dimensional nanostructure-based plasmonic miRNA sensor with high sensitivity. *Biosensors and Bioelectronics*, **2018**, 113, 39-45	11.8	28
41	Characterization and application of porous gold nanoparticles as 2-photon luminescence imaging agents: 20-fold brighter than gold nanorods. *Journal of Biophotonics*, **2018**, 11, e201700174	3.1	3
40	Size-dependent detection sensitivity of spherical particles sitting on a double-bent gold strip array. *Optical Materials Express*, **2018**, 8, 1774	2.6	3
39	Formation of in situ HVPE a-plane GaN nanodots: effects on the structural properties of a-plane GaN templates. *CrystEngComm*, **2018**, 20, 4036-4041	3.3	1

38	Intraocular application of gold nanodisks optically tuned for optical coherence tomography: inhibitory effect on retinal neovascularization without unbearable toxicity. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2017**, 13, 1901-1911	6	18
37	Size-controlled synthesis, characterization, and cytotoxicity study of monodisperse poly(dimethylsiloxane) nanoparticles. *Journal of Industrial and Engineering Chemistry*, **2017**, 53, 177-182	6.3	7
36	Stacked Gold Nanodisks for Bimodal Photoacoustic and Optical Coherence Imaging. *ACS Nano*, **2017**, 11, 6225-6232	16.7	29
35	Facile three-dimensional nanoarchitecturing of double-bent gold strips on roll-to-roll nanoimprinted transparent nanogratings for flexible and scalable plasmonic sensors. *Nanoscale*, **2017**, 9, 1398-1402	7.7	25
34	Optimal DNA structure of reverse-hairpin beacons for label-free and positive surface enhanced Raman scattering assays. *Optical Materials Express*, **2017**, 7, 2352	2.6	3
33	Optimal DNA structure of reverse-hairpin beacons for label-free and positive surface enhanced Raman scattering assays: retraction. *Optical Materials Express*, **2017**, 7, 3136	2.6	1
32	Physically-synthesized gold nanoparticles containing multiple nanopores for enhanced photothermal conversion and photoacoustic imaging. *Nanoscale*, **2016**, 8, 15514-20	7.7	23
31	A Semitransparent and Flexible Single Crystal Si Thin Film: Silicon on Nothing (SON) Revisited. *ACS Applied Materials & Interfaces*, **2016**, 8, 18962-8	9.5	8
30	Guided formation of sub-5 nm interstitial gaps between plasmonic nanodisks. *Nanoscale*, **2015**, 7, 8338-42	7.7	11
29	Nanoparticles inside nanodishes for plasmon excitations. *Applied Physics Letters*, **2015**, 107, 203102	3.4	9
28	Facile fabrication of silver nanoclusters as promising surface-enhanced Raman scattering substrates. *Journal of Nanoscience and Nanotechnology*, **2014**, 14, 2245-51	1.3	7
27	Enhanced two-photon luminescence from nanoporous gold capped with microcontact-printed salts. *Physica Status Solidi - Rapid Research Letters*, **2014**, 8, 52-55	2.5	4
26	Arrays of Nanoscale Gold Dishes Containing Engineered Substructures. *Advanced Optical Materials*, **2013**, 1, 814-818	8.1	8
25	Rational designing of nanoporous nanopattern arrays of Au, Pt and SiO2: synthesis using lithography, sputtering and selective dissolution. *Journal of Materials Chemistry A*, **2013**, 1, 330-336	13	3
24	Strongly enhanced THz emission caused by localized surface charges in semiconducting Germanium nanowires. *Scientific Reports*, **2013**, 3, 1984	4.9	28
23	Porous gold nanodisks with multiple internal hot spots. *Physical Chemistry Chemical Physics*, **2012**, 14, 9131-6	3.6	41
22	Topographically controlled growth of silver nanoparticle clusters. *Physica Status Solidi - Rapid Research Letters*, **2012**, 6, 202-204	2.5	
21	Three-tiered Au nano-disk array for broadband interaction with light. *Nanoscale*, **2012**, 4, 2847-50	7.7	3

20	Silicon nano-well arrays for reliable pattern transfer and locally confined high temperature reactions. *Nanotechnology*, **2011**, 22, 305304	3.4	1
19	Fabrication of planar, layered nanoparticles using tri-layer resist templates. *Nanotechnology*, **2011**, 22, 185302	3.4	20
18	Raman-active two-tiered Ag nanoparticles with a concentric cavity. *Small*, **2011**, 7, 3276-80	11	10
17	Sombrero-shaped plasmonic nanoparticles with molecular-level sensitivity and multifunctionality. *ACS Nano*, **2011**, 5, 6449-57	16.7	30
16	Gradual pressure release for reliable nanoimprint lithography. *Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics*, **2011**, 29, 033001	1.3	4
15	Plasmons in nanoscale and atomic-scale systems. *Science and Technology of Advanced Materials*, **2010**, 11, 054506	7.1	42
14	Fabrication of multilayered Co/Pd nano-dot array with an areal density of 1tera-dot/in2. *Journal of Magnetism and Magnetic Materials*, **2010**, 322, 2585-2588	2.8	6
13	Two-step resist-development process of hydrogen silsesquioxane for high-density electron-beam nanopatterning. *Journal of Vacuum Science & Technology B*, **2009**, 27, 188		20
12	Method of improving the quality of nanopatterning in atomic image projection electron-beam lithography. *Journal of Vacuum Science & Technology B*, **2009**, 27, 2553		3
11	The fabrication scheme of a high resolution and high aspect ratio UV-nanoimprint mold. *Nanotechnology*, **2009**, 20, 495303	3.4	5
10	Electric-Field-Induced Mass Movement of Ge[sub 2]Sb[sub 2]Te[sub 5] in Bottleneck Geometry Line Structures. *Electrochemical and Solid-State Letters*, **2009**, 12, H155		25
9	Phase separation behavior of Ge2Sb2Te5 line structure during electrical stress biasing. *Applied Physics Letters*, **2008**, 92, 111913	3.4	35
8	Fabrication of silicon nanopillar teradot arrays by electron-beam patterning for nanoimprint molds. *Small*, **2008**, 4, 2118-22	11	27
7	Guided Formation of a Sub-10 nm Silicide Dot Array on an Area Patterned by Electron-Beam Lithography. *Advanced Materials*, **2007**, 19, 3469-3472	24	9
6	Electron Beam Projection Nanopatterning Using Crystal Lattice Images Obtained from High Resolution Transmission Electron Microscopy. *Advanced Materials*, **2007**, 19, 4189-4193	24	18
5	High Speed Phase Change Random Access Memory with (Ge1Sb2Te4)0.9(Sn1Bi2Te4)0.1Complete Solid Solution. *Japanese Journal of Applied Physics*, **2007**, 46, 5719-5723	1.4	4
4	Electron-Beam Lithography Patterning of Ge[sub 2]Sb[sub 2]Te[sub 5] Nanostructures Using Hydrogen Silsesquioxane and Amorphous Si Intermediate Layer. *Journal of the Electrochemical Society*, **2007**, 154, H844	3.9	9
3	Electron-beam lithography of CoPd multilayer with hydrogen silsesquioxane and amorphous Si intermediate layer. *Journal of Vacuum Science & Technology B*, **2006**, 24, 2616		8

2	Sensitivity Characteristics of Positive and Negative Resists at 200 kV Electron-Beam Lithography. *Japanese Journal of Applied Physics*, **2005**, 44, L95-L97	1.4	11
1	Inkjet-Printable Nanoporous Ag Disk Arrays Enabling Coffee-Ring Effect-Driven Analyte Enrichment Towards Practical SERS Applications. *International Journal of Precision Engineering and Manufacturing - Green Technology*,1	3.8	5