

# Ilsun Yoon

## List of Publications by Year in descending order

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Version: 2024-02-01

29  
papers

1,510  
citations

393982

19  
h-index

476904

29  
g-index

30  
all docs

30  
docs citations

30  
times ranked

2557  
citing authors

#	ARTICLE	IF	CITATIONS
1	Patterned Multiplex Pathogen DNA Detection by Au Particle-on-Wire SERS Sensor. Nano Letters, 2010, 10, 1189-1193.	4.5	351
2	Single Nanowire on a Film as an Efficient SERS-Active Platform. Journal of the American Chemical Society, 2009, 131, 758-762.	6.6	210
3	Simple Vapor-Phase Synthesis of Single-Crystalline Ag Nanowires and Single-Nanowire Surface-Enhanced Raman Scattering. Journal of the American Chemical Society, 2007, 129, 9576-9577.	6.6	131
4	Self-Assembly of Semiconducting Photoluminescent Peptide Nanowires in the Vapor Phase. Angewandte Chemie - International Edition, 2011, 50, 1164-1167.	7.2	94
5	Au@ZIF-8 SERS paper for food spoilage detection. Biosensors and Bioelectronics, 2021, 179, 113063.	5.3	91
6	Au Nanowire-on-Film SERS Sensor for Ultrasensitive Hg <sup>2+</sup> Detection. Chemistry - A European Journal, 2011, 17, 2211-2214.	1.7	80
7	Polymorph-Tuned Synthesis of Bi <sub>2</sub> O <sub>3</sub> Nanowires and Determination of Their Growth Direction from Polarized Raman Single Nanowire Microscopy. Chemistry - A European Journal, 2011, 17, 1304-1309.	1.7	60
8	Enhancement of Light Absorption in Photovoltaic Devices using Textured Polydimethylsiloxane Stickers. ACS Applied Materials & Interfaces, 2017, 9, 21276-21282.	4.0	60
9	Creating Well-Defined Hot Spots for Surface-Enhanced Raman Scattering by Single-Crystalline Noble Metal Nanowire Pairs. Journal of Physical Chemistry C, 2009, 113, 7492-7496.	1.5	54
10	Newly Developed Broadband Antireflective Nanostructures by Coating a Low-Index MgF <sub>2</sub> Film onto a SiO <sub>2</sub> Moth-Eye Nanopattern. ACS Applied Materials & Interfaces, 2020, 12, 10626-10636.	4.0	39
11	Rainbow Radiating Single-Crystal Ag Nanowire Nanoantenna. Nano Letters, 2012, 12, 2331-2336.	4.5	34
12	Au Nanowire-Au Nanoparticles Conjugated System which Provides Micrometer Size Molecular Sensors. Chemistry - A European Journal, 2010, 16, 1351-1355.	1.7	31
13	Nanofibre optic force transducers with sub-piconewton resolution via near-field plasmon-dielectric interactions. Nature Photonics, 2017, 11, 352-355.	15.6	31
14	Sustainable desalination device capable of producing freshwater and electricity. Desalination, 2022, 535, 115820.	4.0	31
15	Conformational Study of Tyramine and Its Water Clusters by Laser Spectroscopy. Journal of Physical Chemistry A, 2007, 111, 1800-1807.	1.1	29
16	Effective Photon Management of Non-Surface-Textured Flexible Thin Crystalline Silicon Solar Cells. Cell Reports Physical Science, 2020, 1, 100242.	2.8	25
17	Pattern-Selective Epitaxial Growth of Twin-Free Pd Nanowires from Supported Nanocrystal Seeds. ACS Nano, 2010, 4, 2919-2927.	7.3	24
18	Characterization of Graphene Sheets Formed by the Reaction of Carbon Monoxide with Aluminum Sulfide. Bulletin of the Korean Chemical Society, 2009, 30, 3045-3048.	1.0	23

#	ARTICLE	IF	CITATIONS
19	Quantitative mechanical analysis of thin compressible polymer monolayers on oxide surfaces. <i>Soft Matter</i> , 2014, 10, 8001-8010.	1.2	18
20	Single Crystalline NbO <sub>2</sub> Nanowire Synthesis by Chemical Vapor Transport Method. <i>Bulletin of the Korean Chemical Society</i> , 2012, 33, 839-842.	1.0	17
21	Enhanced Surface Properties of Light-Trapping Si Nanowires Using Synergetic Effects of Metal-Assisted and Anisotropic Chemical Etchings. <i>Scientific Reports</i> , 2019, 9, 15914.	1.6	13
22	Stimulus-Responsive Light Coupling and Modulation with Nanofiber Waveguide Junctions. <i>Nano Letters</i> , 2012, 12, 1905-1911.	4.5	10
23	Nanofiber Near-Field Light-Matter Interactions for Enhanced Detection of Molecular Level Displacements and Dynamics. <i>Nano Letters</i> , 2013, 13, 1440-1445.	4.5	10
24	Profiling the evanescent field of nanofiber waveguides using self-assembled polymer coatings. <i>Nanoscale</i> , 2013, 5, 552-555.	2.8	9
25	Plasma-assisted ITO sol coating for optimizing the optoelectronic properties of ITO glass. <i>Applied Surface Science</i> , 2021, 551, 149414.	3.1	6
26	Gap controlled plasmon-dielectric coupling effects investigated with single nanoparticle-terminated atomic force microscope probes. <i>Nanoscale</i> , 2016, 8, 17102-17107.	2.8	5
27	Polyhedral gold nanocrystals/polyelectrolyte composite film: One-pot synthesis via interfacial liquid plasma polymerization. <i>Composites Science and Technology</i> , 2017, 153, 198-208.	3.8	2
28	Development of an Arsenobetaine Standard Solution with Metrological Traceability to the <math>^{67}\text{Zn}</math> by an Arsenic-Specific Mass Balance Method. <i>Bulletin of the Korean Chemical Society</i> , 2017, 38, 237-245.	1.0	1
29	Calculation of electric field enhancement in the gap between two paralleled metallic wires. , 2009, , .		0