

# Yong-Sang Ryu

## List of Publications by Year in descending order

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33  
papers

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citations

840776

11  
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839539

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g-index

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all docs

35  
docs citations

35  
times ranked

448  
citing authors

#	ARTICLE	IF	CITATIONS
1	Label-free brain tissue imaging using large-area terahertz metamaterials. <i>Biosensors and Bioelectronics</i> , 2020, 170, 112663.	10.1	59
2	Reconstituting ring-rafts in bud-mimicking topography of model membranes. <i>Nature Communications</i> , 2014, 5, 4507.	12.8	41
3	Asymmetric optical camouflage: tuneable reflective colour accompanied by the optical Janus effect. <i>Light: Science and Applications</i> , 2020, 9, 175.	16.6	39
4	Precise capture and dynamic relocation of nanoparticulate biomolecules through dielectrophoretic enhancement by vertical nanogap architectures. <i>Nature Communications</i> , 2020, 11, 2804.	12.8	22
5	Ultrasensitive terahertz sensing of gold nanoparticles inside nano slot antennas. <i>Optics Express</i> , 2017, 25, 30591.	3.4	21
6	Lipid Membrane Deformation Accompanied by Disk-to-Ring Shape Transition of Cholesterol-Rich Domains. <i>Journal of the American Chemical Society</i> , 2015, 137, 8692-8695.	13.7	18
7	Highly Sensitive Color Tunability by Scalable Nanomorphology of a Dielectric Layer in Liquid-Permeable Metal-Insulator-Metal Structure. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 38581-38587.	8.0	17
8	Continuity of Monolayer-Bilayer Junctions for Localization of Lipid Raft Microdomains in Model Membranes. <i>Scientific Reports</i> , 2016, 6, 26823.	3.3	14
9	Ionic contrast across a lipid membrane for Debye length extension: towards an ultimate bioelectronic transducer. <i>Nature Communications</i> , 2021, 12, 3741.	12.8	13
10	Compensation of spin-orbit interaction using the geometric phase of distributed nanoslits for polarization-independent plasmonic vortex generation. <i>Optics Express</i> , 2019, 27, 19119.	3.4	13
11	Artificial Rod and Cone Photoreceptors with Human-Like Spectral Sensitivities. <i>Advanced Materials</i> , 2018, 30, e1706764.	21.0	12
12	Nanoscale Terahertz Monitoring on Multiphase Dynamic Assembly of Nanoparticles under Aqueous Environment. <i>Advanced Science</i> , 2021, 8, e2004826.	11.2	12
13	Surface Sensitive Analysis Device using Model Membrane and Challenges for Biosensor-chip. <i>Biochip Journal</i> , 2020, 14, 110-123.	4.9	11
14	Autofluorescence-Raman Mapping Integration analysis for ultra-fast label-free monitoring of adipogenic differentiation of stem cells. <i>Biosensors and Bioelectronics</i> , 2021, 178, 113018.	10.1	10
15	Biocompatible Patterning of Proteins on Wettability Gradient Surface by Thermo-Transfer Printing. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 6069-6071.	0.9	8
16	Control of surface anchoring properties of liquid crystal by thermo-transfer printing of siloxane oligomers. <i>Liquid Crystals</i> , 2015, 42, 1236-1242.	2.2	7
17	Kinetics of lipid raft formation at lipid monolayer-bilayer junction probed by surface plasmon resonance. <i>Biosensors and Bioelectronics</i> , 2019, 142, 111568.	10.1	7
18	Time-Dependent Wetting Scenarios of a Water Droplet on Surface-Energy-Controlled Microcavity Structures with Functional Nanocoatings. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 39881-39891.	8.0	7

#	ARTICLE	IF	CITATIONS
19	Direct comparison with terahertz metamaterials and surface-enhanced Raman scattering in a molecular-specific sensing performance. Optics Express, 2021, 29, 12.	3.4	7
20	The perspectives of broadband metasurfaces and photo-electric tweezer applications. Nanophotonics, 2022, 11, 1783-1808.	6.0	7
21	Physicochemical Modulation of Nanometer-Thick Etalon Films for Liquid-Sensitive Color Display with Full-Color Spectrum Generation. ACS Applied Nano Materials, 2021, 4, 389-395.	5.0	5
22	Curvature Elasticity-Driven Leaflet Asymmetry and Interleaflet Raft Coupling in Supported Membranes. Advanced Materials Interfaces, 2018, 5, 1801290.	3.7	4
23	Field-Directed Diffusion of Charged Lipids in Supported Membranes for Spatially Addressed Microarrays. Molecular Crystals and Liquid Crystals, 2012, 559, 1-8.	0.9	3
24	Elasticity-Driven Membrane Budding through Cholesterol Concentration on Supported Lipid Monolayer-Bilayer Junction. Advanced Materials Interfaces, 2020, 7, 2000937.	3.7	3
25	Development of a Photonic Switch via Electro-Capillarity-Induced Water Penetration Across a 10-nm Gap. Small, 2022, 18, 2107060.	10.0	3
26	Coarsening Nature of Liquid-Ordered Domain in Model Membrane. Molecular Crystals and Liquid Crystals, 2014, 600, 81-87.	0.9	2
27	Investigation of Structural Stability for Monolithic Nano Bridges on Micro Apertures. Applied Sciences (Switzerland), 2020, 10, 2922.	2.5	2
28	Model membrane-mediated cell alignment through surface hydrophobicity. Molecular Crystals and Liquid Crystals, 2016, 636, 149-154.	0.9	1
29	Dynamic Manipulation of Charged Lipids in Model Membrane for Bio-Microarrays. Journal of Nanoscience and Nanotechnology, 2016, 16, 6355-6359.	0.9	1
30	Octave-spanning supercontinuum generation in infrared by MoS <sub>2</sub> -filled hollow core fiber. Journal of the Korean Physical Society, 2020, 77, 931-935.	0.7	1
31	Lipid Membranes: Curvature Elasticity-Driven Leaflet Asymmetry and Interleaflet Raft Coupling in Supported Membranes (Adv. Mater. Interfaces 23/2018). Advanced Materials Interfaces, 2018, 5, 1870117.	3.7	0
32	Photoreceptors: Artificial Rod and Cone Photoreceptors with Human-Like Spectral Sensitivities (Adv. Tj ETQq0 0 0 rgBT /Overlock 10 Tf	21.0	0
33	Observation of structural color in random Au nano-islands fabricated on dielectric nanopillars. , 2020, , .		0