

Sang-Hyun Oh

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5742196/publications.pdf>

Version: 2024-02-01

176
papers

11,997
citations

30047

54
h-index

28275

105
g-index

179
all docs

179
docs citations

179
times ranked

13215
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrasmooth Patterned Metals for Plasmonics and Metamaterials. <i>Science</i> , 2009, 325, 594-597.	6.0	770
2	Optical dielectric function of gold. <i>Physical Review B</i> , 2012, 86, .	1.1	704
3	Recent progress in SERS biosensing. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 11551.	1.3	598
4	Bandgap engineering of two-dimensional semiconductor materials. <i>Npj 2D Materials and Applications</i> , 2020, 4, .	3.9	528
5	Engineering metallic nanostructures for plasmonics and nanophotonics. <i>Reports on Progress in Physics</i> , 2012, 75, 036501.	8.1	427
6	Vertically Oriented Sub-10-nm Plasmonic Nanogap Arrays. <i>Nano Letters</i> , 2010, 10, 2231-2236.	4.5	384
7	Advances and applications of nanophotonic biosensors. <i>Nature Nanotechnology</i> , 2022, 17, 5-16.	15.6	308
8	Analytic description of short-channel effects in fully-depleted double-gate and cylindrical, surrounding-gate MOSFETs. <i>IEEE Electron Device Letters</i> , 2000, 21, 445-447.	2.2	298
9	Atomic layer lithography of wafer-scale nanogap arrays for extreme confinement of electromagnetic waves. <i>Nature Communications</i> , 2013, 4, 2361.	5.8	286
10	Periodic nanohole arrays with shape-enhanced plasmon resonance as real-time biosensors. <i>Applied Physics Letters</i> , 2007, 90, 243110.	1.5	254
11	Nanopore sensing at ultra-low concentrations using single-molecule dielectrophoretic trapping. <i>Nature Communications</i> , 2016, 7, 10217.	5.8	224
12	Self-Assembled Plasmonic Nanoring Cavity Arrays for SERS and LSPR Biosensing. <i>Advanced Materials</i> , 2013, 25, 2678-2685.	11.1	222
13	Graphene acoustic plasmon resonator for ultrasensitive infrared spectroscopy. <i>Nature Nanotechnology</i> , 2019, 14, 313-319.	15.6	210
14	Template-Stripped Smooth Ag Nanohole Arrays with Silica Shells for Surface Plasmon Resonance Biosensing. <i>ACS Nano</i> , 2011, 5, 6244-6253.	7.3	203
15	Resolving molecule-specific information in dynamic lipid membrane processes with multi-resonant infrared metasurfaces. <i>Nature Communications</i> , 2018, 9, 2160.	5.8	176
16	Three-Dimensional Plasmonic Nanofocusing. <i>Nano Letters</i> , 2010, 10, 1369-1373.	4.5	167
17	Plasmonic nanocavity arrays for enhanced efficiency in organic photovoltaic cells. <i>Applied Physics Letters</i> , 2008, 93, 123308.	1.5	165
18	Self-Assembled Plasmonic Nanohole Arrays. <i>Langmuir</i> , 2009, 25, 13685-13693.	1.6	154

#	ARTICLE	IF	CITATIONS
19	Infrared Plasmonic Biosensor for Real-Time and Label-Free Monitoring of Lipid Membranes. <i>Nano Letters</i> , 2016, 16, 1502-1508.	4.5	152
20	Plasmonic nano-structures for optical data storage. <i>Optics Express</i> , 2009, 17, 14001.	1.7	150
21	Dielectrophoresis-Enhanced Plasmonic Sensing with Gold Nanohole Arrays. <i>Nano Letters</i> , 2014, 14, 2006-2012.	4.5	149
22	Nanoscale tweezers for single-cell biopsies. <i>Nature Nanotechnology</i> , 2019, 14, 80-88.	15.6	147
23	Nanogap-Enhanced Infrared Spectroscopy with Template-Stripped Wafer-Scale Arrays of Buried Plasmonic Cavities. <i>Nano Letters</i> , 2015, 15, 107-113.	4.5	135
24	Low-Power Optical Trapping of Nanoparticles and Proteins with Resonant Coaxial Nanoaperture Using 10 nm Gap. <i>Nano Letters</i> , 2018, 18, 3637-3642.	4.5	134
25	Highly Reproducible Near-Field Optical Imaging with Sub-20-nm Resolution Based on Template-Stripped Gold Pyramids. <i>ACS Nano</i> , 2012, 6, 9168-9174.	7.3	130
26	Sub-micron resolution surface plasmon resonance imaging enabled by nanohole arrays with surrounding Bragg mirrors for enhanced sensitivity and isolation. <i>Lab on A Chip</i> , 2009, 9, 382-387.	3.1	126
27	Membrane protein biosensing with plasmonic nanopore arrays and pore-spanning lipid membranes. <i>Chemical Science</i> , 2010, 1, 688.	3.7	118
28	Single-Crystalline Silver Films for Plasmonics. <i>Advanced Materials</i> , 2012, 24, 3988-3992.	11.1	118
29	Plasmonic Nanoholes in a Multichannel Microarray Format for Parallel Kinetic Assays and Differential Sensing. <i>Analytical Chemistry</i> , 2009, 81, 2854-2859.	3.2	112
30	Third-Harmonic Generation Enhancement by Film-Coupled Plasmonic Stripe Resonators. <i>ACS Photonics</i> , 2014, 1, 1212-1217.	3.2	112
31	Three-Dimensional Integration of Black Phosphorus Photodetector with Silicon Photonics and Nanoplasmonics. <i>Nano Letters</i> , 2017, 17, 985-991.	4.5	111
32	Surface plasmon resonance for high-throughput ligand screening of membrane-bound proteins. <i>Biotechnology Journal</i> , 2009, 4, 1542-1558.	1.8	108
33	Laser-illuminated nanohole arrays for multiplex plasmonic microarray sensing. <i>Optics Express</i> , 2008, 16, 219.	1.7	105
34	Nanohole-Based Surface Plasmon Resonance Instruments with Improved Spectral Resolution Quantify a Broad Range of Antibody-Ligand Binding Kinetics. <i>Analytical Chemistry</i> , 2012, 84, 1941-1947.	3.2	96
35	Influence of the Evanescent Field Decay Length on the Sensitivity of Plasmonic Nanodisks and Nanoholes. <i>ACS Photonics</i> , 2015, 2, 256-262.	3.2	94
36	Tunable Graphene Metasurface Reflectarray for Cloaking, Illusion, and Focusing. <i>Physical Review Applied</i> , 2018, 9, .	1.5	93

#	ARTICLE	IF	CITATIONS
37	Atomic Layer Deposition of Dielectric Overlayers for Enhancing the Optical Properties and Chemical Stability of Plasmonic Nanoholes. <i>ACS Nano</i> , 2010, 4, 947-954.	7.3	90
38	High-Contrast Infrared Absorption Spectroscopy via Mass-Produced Coaxial Zero-Mode Resonators with Sub-10 nm Gaps. <i>Nano Letters</i> , 2018, 18, 1930-1936.	4.5	88
39	Nanophotonic biosensors harnessing van der Waals materials. <i>Nature Communications</i> , 2021, 12, 3824.	5.8	88
40	Nanoscale Fluorescence Lifetime Imaging of an Optical Antenna with a Single Diamond NV Center. <i>Nano Letters</i> , 2013, 13, 3807-3811.	4.5	85
41	Nanogap-Enhanced Terahertz Sensing of 1 nm Thick ($\epsilon_r/10^{⁶}$) Dielectric Films. <i>ACS Photonics</i> , 2015, 2, 417-424.	3.2	85
42	High-Throughput Fabrication of Resonant Metamaterials with Ultrasmall Coaxial Apertures via Atomic Layer Lithography. <i>Nano Letters</i> , 2016, 16, 2040-2046.	4.5	84
43	Promises and challenges of nanoplasmonic devices for refractometric biosensing. <i>Nanophotonics</i> , 2013, 2, 83-101.	2.9	83
44	Template-Stripped Tunable Plasmonic Devices on Stretchable and Rollable Substrates. <i>ACS Nano</i> , 2015, 9, 10647-10654.	7.3	79
45	Ultrastrong plasmon-phonon coupling via epsilon-near-zero nanocavities. <i>Nature Photonics</i> , 2021, 15, 125-130.	15.6	78
46	Real-time full-spectral imaging and affinity measurements from 50 microfluidic channels using nanohole surface plasmon resonance. <i>Lab on A Chip</i> , 2012, 12, 3882.	3.1	74
47	Performance metrics and enabling technologies for nanoplasmonic biosensors. <i>Nature Communications</i> , 2018, 9, 5263.	5.8	70
48	Graphene-edge dielectrophoretic tweezers for trapping of biomolecules. <i>Nature Communications</i> , 2017, 8, 1867.	5.8	69
49	High-bandwidth radio frequency Coulter counter. <i>Applied Physics Letters</i> , 2005, 87, 184106.	1.5	65
50	Fundamental Limits on the Subthreshold Slope in Schottky Source/Drain Black Phosphorus Field-Effect Transistors. <i>ACS Nano</i> , 2016, 10, 3791-3800.	7.3	65
51	Spatial Coherence in Near-Field Raman Scattering. <i>Physical Review Letters</i> , 2014, 113, 186101.	2.9	63
52	Monolithic Integration of Continuously Tunable Plasmonic Nanostructures. <i>Nano Letters</i> , 2011, 11, 3526-3530.	4.5	59
53	Plasmonic Nanohole Sensor for Capturing Single Virus-Like Particles toward Virucidal Drug Evaluation. <i>Small</i> , 2016, 12, 1159-1166.	5.2	57
54	Ultralow-Power Electronic Trapping of Nanoparticles with Sub-10 nm Gold Nanogap Electrodes. <i>Nano Letters</i> , 2016, 16, 6317-6324.	4.5	57

#	ARTICLE	IF	CITATIONS
55	Millimeter-Sized Suspended Plasmonic Nanohole Arrays for Surface-Tension-Driven Flow-Through SERS. <i>Chemistry of Materials</i> , 2014, 26, 6523-6530.	3.2	56
56	Waveguide-Integrated Compact Plasmonic Resonators for On-Chip Mid-Infrared Laser Spectroscopy. <i>Nano Letters</i> , 2018, 18, 7601-7608.	4.5	56
57	Image polaritons in boron nitride for extreme polariton confinement with low losses. <i>Nature Communications</i> , 2020, 11, 3649.	5.8	56
58	Atomic layer deposition: A versatile technique for plasmonics and nanobiotechnology. <i>Journal of Materials Research</i> , 2012, 27, 663-671.	1.2	54
59	Split-Wedge Antennas with Sub-5 nm Gaps for Plasmonic Nanofocusing. <i>Nano Letters</i> , 2016, 16, 7849-7856.	4.5	54
60	Anisotropic Acoustic Plasmons in Black Phosphorus. <i>ACS Photonics</i> , 2018, 5, 2208-2216.	3.2	54
61	Facile Assembly of Micro- and Nanoarrays for Sensing with Natural Cell Membranes. <i>ACS Nano</i> , 2011, 5, 7555-7564.	7.3	49
62	Linewidth-Optimized Extraordinary Optical Transmission in Water with Template-Stripped Metallic Nanohole Arrays. <i>Advanced Functional Materials</i> , 2012, 22, 4439-4446.	7.8	49
63	Thermal Stability of Gold Nanorods for High-Temperature Plasmonic Sensing. <i>Journal of Physical Chemistry C</i> , 2013, 117, 11718-11724.	1.5	49
64	Film-coupled nanoparticles by atomic layer deposition: Comparison with organic spacing layers. <i>Applied Physics Letters</i> , 2014, 104, 023109.	1.5	48
65	Plasmonic Sensing on Symmetric Nanohole Arrays Supporting High-Q Hybrid Modes and Reflection Geometry. <i>ACS Sensors</i> , 2019, 4, 3265-3274.	4.0	44
66	Plasmonic nanofocusing with a metallic pyramid and an integrated C-shaped aperture. <i>Scientific Reports</i> , 2013, 3, 1857.	1.6	43
67	Rapid and Sensitive in Situ SERS Detection Using Dielectrophoresis. <i>Chemistry of Materials</i> , 2014, 26, 2445-2452.	3.2	42
68	Reconstituting ring-rafts in bud-mimicking topography of model membranes. <i>Nature Communications</i> , 2014, 5, 4507.	5.8	41
69	Ultrasoother metallic films with buried nanostructures for backside reflection-mode plasmonic biosensing. <i>Annalen Der Physik</i> , 2012, 524, 687-696.	0.9	40
70	Tip-based plasmonics: squeezing light with metallic nanoprobles. <i>Laser and Photonics Reviews</i> , 2013, 7, 453-477.	4.4	39
71	Template-Stripped Asymmetric Metallic Pyramids for Tunable Plasmonic Nanofocusing. <i>Nano Letters</i> , 2013, 13, 5635-5641.	4.5	39
72	Integrated Nanogap Platform for Sub-Volt Dielectrophoretic Trapping and Real-Time Raman Imaging of Biological Nanoparticles. <i>Nano Letters</i> , 2018, 18, 5946-5953.	4.5	39

#	ARTICLE	IF	CITATIONS
73	High-Affinity Binding of Remyelinating Natural Autoantibodies to Myelin-Mimicking Lipid Bilayers Revealed by Nanohole Surface Plasmon Resonance. <i>Analytical Chemistry</i> , 2012, 84, 6031-6039.	3.2	38
74	A natural human IgM that binds to gangliosides is therapeutic in murine models of amyotrophic lateral sclerosis. <i>DMM Disease Models and Mechanisms</i> , 2015, 8, 831-42.	1.2	38
75	On-Demand Surface- and Tip-Enhanced Raman Spectroscopy Using Dielectrophoretic Trapping and Nanopore Sensing. <i>ACS Photonics</i> , 2016, 3, 1036-1044.	3.2	38
76	Topographically Flat Substrates with Embedded Nanoplasmonic Devices for Biosensing. <i>Advanced Functional Materials</i> , 2013, 23, 2812-2820.	7.8	36
77	Low-temperature enhancement of plasmonic performance in silver films. <i>Optical Materials Express</i> , 2015, 5, 1147.	1.6	35
78	Ultrasmall Plasmonic Single Nanoparticle Light Source Driven by a Graphene Tunnel Junction. <i>ACS Nano</i> , 2018, 12, 2780-2788.	7.3	35
79	Squeezing Millimeter Waves through a Single, Nanometer-wide, Centimeter-long Slit. <i>Scientific Reports</i> , 2014, 4, 6722.	1.6	34
80	Real-space imaging of acoustic plasmons in large-area graphene grown by chemical vapor deposition. <i>Nature Communications</i> , 2021, 12, 938.	5.8	33
81	The vertical replacement-gate (VRG) MOSFET. <i>Solid-State Electronics</i> , 2002, 46, 939-950.	0.8	32
82	Nanopore-Induced Spontaneous Concentration for Optofluidic Sensing and Particle Assembly. <i>Analytical Chemistry</i> , 2013, 85, 971-977.	3.2	32
83	Electrotunable Nanoplasmonics for Amplified Surface Enhanced Raman Spectroscopy. <i>ACS Nano</i> , 2020, 14, 328-336.	7.3	32
84	Gap Plasmon Enhanced Metasurface Third-Harmonic Generation in Transmission Geometry. <i>ACS Photonics</i> , 2016, 3, 1461-1467.	3.2	31
85	Individual Template-Stripped Conductive Gold Pyramids for Tip-Enhanced Dielectrophoresis. <i>ACS Photonics</i> , 2014, 1, 464-470.	3.2	30
86	Coupled-mode theory for plasmonic resonators integrated with silicon waveguides towards mid-infrared spectroscopic sensing. <i>Optics Express</i> , 2020, 28, 2020.	1.7	30
87	Full Wave Modelling of Light Propagation and Reflection. <i>Computer Graphics Forum</i> , 2013, 32, 24-37.	1.8	29
88	Mode-Matching Enhancement of Second-Harmonic Generation with Plasmonic Nanopatch Antennas. <i>ACS Photonics</i> , 2020, 7, 3333-3340.	3.2	29
89	Self-assembled plasmonic electrodes for high-performance organic photovoltaic cells. <i>Applied Physics Letters</i> , 2011, 99, 103306.	1.5	28
90	Fine tuning of nanopipettes using atomic layer deposition for single molecule sensing. <i>Analyst</i> , The, 2015, 140, 4828-4834.	1.7	28

#	ARTICLE	IF	CITATIONS
91	Perfect Extinction of Terahertz Waves in Monolayer Graphene over 2-µm-Wide Metallic Apertures. <i>Advanced Optical Materials</i> , 2015, 3, 667-673.	3.6	28
92	Fabrication of Smooth Patterned Structures of Refractory Metals, Semiconductors, and Oxides via Template Stripping. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 9701-9708.	4.0	27
93	Monolithic fringe-field-activated crystalline silicon tilting-mirror devices. <i>Journal of Microelectromechanical Systems</i> , 2003, 12, 702-707.	1.7	26
94	Modeling and observation of mid-infrared nonlocality in effective epsilon-near-zero ultranarrow coaxial apertures. <i>Nature Communications</i> , 2019, 10, 4476.	5.8	26
95	Improved dielectric functions in metallic films obtained via template stripping. <i>Applied Physics Letters</i> , 2012, 100, 081105.	1.5	25
96	Location-specific nanoplasmonic sensing of biomolecular binding to lipid membranes with negative curvature. <i>Nanoscale</i> , 2015, 7, 15080-15085.	2.8	25
97	A hybridizable discontinuous Galerkin method for computing nonlocal electromagnetic effects in three-dimensional metallic nanostructures. <i>Journal of Computational Physics</i> , 2018, 355, 548-565.	1.9	25
98	Impact of Surface Roughness in Nanogap Plasmonic Systems. <i>ACS Photonics</i> , 2020, 7, 908-913.	3.2	25
99	Plasmonic Gas Sensing with Graphene Nanoribbons. <i>Physical Review Applied</i> , 2020, 13, .	1.5	25
100	A Tunable Nanoplasmonic Mirror at an Electrochemical Interface. <i>ACS Photonics</i> , 2018, 5, 4604-4616.	3.2	23
101	Applications of SPR for the characterization of molecules important in the pathogenesis and treatment of neurodegenerative diseases. <i>Expert Review of Neurotherapeutics</i> , 2014, 14, 449-463.	1.4	22
102	Influence of Silver Film Quality on the Threshold of Plasmonic Nanowire Lasers. <i>Advanced Optical Materials</i> , 2017, 5, 1600856.	3.6	22
103	Recent Advances in Monoclonal Antibody Therapies for Multiple Sclerosis. <i>Expert Opinion on Biological Therapy</i> , 2016, 16, 827-839.	1.4	21
104	Microfluidic Protein Detection through Genetically Engineered Bacterial Cells. <i>Journal of Proteome Research</i> , 2006, 5, 3433-3437.	1.8	20
105	Lateral confinement of surface plasmons and polarization-dependent optical transmission using nanohole arrays with a surrounding rectangular Bragg resonator. <i>Applied Physics Letters</i> , 2007, 91, 253105.	1.5	20
106	Self-Assembled Multifunctional 3D Microdevices. <i>Advanced Electronic Materials</i> , 2016, 2, 1500459.	2.6	20
107	High-Performance Black Phosphorus MOSFETs Using Crystal Orientation Control and Contact Engineering. <i>IEEE Electron Device Letters</i> , 2017, 38, 685-688.	2.2	20
108	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.	6.6	18

#	ARTICLE	IF	CITATIONS
109	Template-Stripped Multifunctional Wedge and Pyramid Arrays for Magnetic Nanofocusing and Optical Sensing. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 9319-9326.	4.0	18
110	Mobility Anisotropy in Black Phosphorus MOSFETs With HfO ₂ Gate Dielectrics. <i>IEEE Transactions on Electron Devices</i> , 2018, 65, 4093-4101.	1.6	18
111	Surface Plasmon Resonance Study of the Binding of PEO- <i>b</i> -PPO- <i>b</i> -PEO Triblock Copolymer and PEO Homopolymer to Supported Lipid Bilayers. <i>Langmuir</i> , 2018, 34, 6703-6712.	1.6	18
112	A patterned recombinant human IgM guides neurite outgrowth of CNS neurons. <i>Scientific Reports</i> , 2013, 3, 2267.	1.6	17
113	Applications of plasmonics: general discussion. <i>Faraday Discussions</i> , 2015, 178, 435-466.	1.6	17
114	Launching surface plasmon waves via vanishingly small periodic gratings. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2016, 33, 276.	0.8	17
115	Cyclical Thinning of Black Phosphorus with High Spatial Resolution for Heterostructure Devices. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 12654-12662.	4.0	17
116	Plasmonic Split-Trench Resonator for Trapping and Sensing. <i>ACS Nano</i> , 2021, 15, 6669-6677.	7.3	17
117	Human-derived natural antibodies: biomarkers and potential therapeutics. <i>Future Neurology</i> , 2015, 10, 25-39.	0.9	16
118	High-density metallic nanogap arrays for the sensitive detection of single-walled carbon nanotube thin films. <i>Faraday Discussions</i> , 2015, 178, 195-201.	1.6	16
119	Naturally Occurring Monoclonal Antibodies and Their Therapeutic Potential for Neurologic Diseases. <i>JAMA Neurology</i> , 2015, 72, 1346.	4.5	16
120	Multimodal Photodiode and Phototransistor Device Based on Two-Dimensional Materials. <i>ACS Nano</i> , 2016, 10, 10500-10506.	7.3	16
121	Periodic modulation of extraordinary optical transmission through subwavelength hole arrays using surrounding Bragg mirrors. <i>Physical Review B</i> , 2007, 76, .	1.1	15
122	Waveguide-integrated mid-infrared plasmonics with high-efficiency coupling for ultracompact surface-enhanced infrared absorption spectroscopy. <i>Optics Express</i> , 2018, 26, 23540.	1.7	15
123	Ultraflat Sub-10 Nanometer Gap Electrodes for Two-Dimensional Optoelectronic Devices. <i>ACS Nano</i> , 2021, 15, 5276-5283.	7.3	15
124	Oxidation Sharpening, Template Stripping, and Passivation of Ultra-Sharp Metallic Pyramids and Wedges. <i>Small</i> , 2014, 10, 680-684.	5.2	14
125	Polarization interferometry for real-time spectroscopic plasmonic sensing. <i>Nanoscale</i> , 2015, 7, 4226-4233.	2.8	14
126	Continuity of Monolayer-Bilayer Junctions for Localization of Lipid Raft Microdomains in Model Membranes. <i>Scientific Reports</i> , 2016, 6, 26823.	1.6	14

#	ARTICLE	IF	CITATIONS
127	Field enhancement and saturation of millimeter waves inside a metallic nanogap. <i>Optics Express</i> , 2014, 22, 14402.	1.7	13
128	Nanohole Array-Directed Trapping of Mammalian Mitochondria Enabling Single Organelle Analysis. <i>Analytical Chemistry</i> , 2015, 87, 11973-11977.	3.2	13
129	Surface passivation of a photonic crystal band-edge laser by atomic layer deposition of SiO ₂ and its application for biosensing. <i>Nanoscale</i> , 2015, 7, 3565-3571.	2.8	13
130	High-Density Arrays of Submicron Spherical Supported Lipid Bilayers. <i>Analytical Chemistry</i> , 2012, 84, 8207-8213.	3.2	12
131	Fast high-order perturbation of surfaces methods for simulation of multilayer plasmonic devices and metamaterials. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2014, 31, 1820.	0.8	12
132	Dielectrophoresis-Assisted Raman Spectroscopy of Intravesicular Analytes on Metallic Pyramids. <i>Analytical Chemistry</i> , 2016, 88, 1704-1710.	3.2	12
133	Nano-Optical Tweezers: Methods and Applications for Trapping Single Molecules and Nanoparticles. <i>ChemPhysChem</i> , 2021, 22, 1409-1420.	1.0	12
134	Three-Dimensional Anisotropic Metamaterials as Triaxial Optical Inclometers. <i>Scientific Reports</i> , 2017, 7, 2680.	1.6	11
135	Plasmonic nanohole arrays for real-time multiplex biosensing. <i>Proceedings of SPIE</i> , 2008, , .	0.8	10
136	Accessing the Exceptional Points in a Graphene Plasmon-Vibrational Mode Coupled System. <i>ACS Photonics</i> , 2021, 8, 3241-3248.	3.2	10
137	Effect of Nanohole Spacing on the Self-Imaging Phenomenon Created by the Three-Dimensional Propagation of Light through Periodic Nanohole Arrays. <i>Journal of Physical Chemistry C</i> , 2012, 116, 19958-19967.	1.5	9
138	A fast and high-order accurate surface perturbation method for nanoplasmonic simulations: basic concepts, analytic continuation and applications. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2013, 30, 2175.	0.8	9
139	Attenuation Mechanism Effect on Filter Shape in Channelized Dynamic Spectral Equalizers. <i>Applied Optics</i> , 2004, 43, 127.	2.1	8
140	Escalated Photocurrent with Excitation Energy in Dual-Gated MoTe ₂ . <i>Nano Letters</i> , 2021, 21, 1976-1981.	4.5	8
141	CRABP1-CaMKII-Grn regulates the maintenance of neuromuscular junction in spinal motor neuron. <i>Cell Death and Differentiation</i> , 2022, 29, 1744-1756.	5.0	8
142	Open-channel microfluidics via resonant wireless power transfer. <i>Nature Communications</i> , 2022, 13, 1869.	5.8	8
143	Kinetics of lipid raft formation at lipid monolayer-bilayer junction probed by surface plasmon resonance. <i>Biosensors and Bioelectronics</i> , 2019, 142, 111568.	5.3	7
144	Size-Reduction Template Stripping of Smooth Curved Metallic Tips for Adiabatic Nanofocusing of Surface Plasmons. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 13624-13629.	4.0	6

#	ARTICLE	IF	CITATIONS
145	Plasmonic Cup Resonators for Single-Nanohole-Based Sensing and Spectroscopy. ACS Photonics, 2016, 3, 1202-1207.	3.2	6
146	Plasmonic nanohole arrays for label-free kinetic biosensing in a lipid membrane environment. , 2009, 2009, 1481-4.		5
147	Surface Plasmon Resonance Sensing on Naturally Derived Membranes: A Remyelination-Promoting Human Antibody Binds Myelin with Extraordinary Affinity. Analytical Chemistry, 2018, 90, 12567-12573.	3.2	5
148	Self-aligned grating couplers on template-stripped metal pyramids via nanostencil lithography. Applied Physics Letters, 2016, 108, 213106.	1.5	4
149	Curvature Elasticity-Driven Leaflet Asymmetry and Interleaflet Raft Coupling in Supported Membranes. Advanced Materials Interfaces, 2018, 5, 1801290.	1.9	4
150	Plasmonic Nano-structures for Optical Data Storage. , 2009, , .		4
151	Terahertz and infrared nonlocality and field saturation in extreme-scale nanoslits. Optics Express, 2020, 28, 8701.	1.7	4
152	A field-deployable diagnostic assay for the visual detection of misfolded prions. Scientific Reports, 2022, 12, .	1.6	4
153	Self-Assembled Plasmonic Nanoring Cavity Arrays for SERS and LSPR Biosensing (Adv. Mater. 19/2013). Advanced Materials, 2013, 25, 2677-2677.	11.1	3
154	Surface plasmon enhanced spectroscopies and time and space resolved methods: general discussion. Faraday Discussions, 2015, 178, 253-279.	1.6	3
155	Fast vertical mode expansion method for the simulation of extraordinary terahertz field enhancement in an annular nanogap. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 30.	0.9	3
156	Nanogap dielectrophoresis combined with buffer exchange for detecting protein binding to trapped bioparticles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 611, 125829.	2.3	3
157	Construction of a Magnetic Biosensor for Pathogen Detection. Journal of Medical Devices, Transactions of the ASME, 2008, 2, .	0.4	2
158	Launching graphene surface plasmon waves with vanishingly small periodic grating structures. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2021, 38, 556.	0.8	2
159	Nano-Optical Tweezers: Methods and Applications for Trapping Single Molecules and Nanoparticles. ChemPhysChem, 2021, 22, 1408-1408.	1.0	2
160	The Application of Solid Source Diffusion in the Vertical Replacement-Gate (VRG) MOSFET. Materials Research Society Symposia Proceedings, 2000, 610, 321.	0.1	1
161	50 nm Vertical Replacement-Gate (VRG) pMOSFETs. , 0, , .		1
162	Plasmonic Optical data storage. , 2009, , .		1

#	ARTICLE	IF	CITATIONS
163	Formation of Biomembrane Microarrays with a Squeegee-based Assembly Method. Journal of Visualized Experiments, 2014, , .	0.2	1
164	Terahertz Waves: Perfect Extinction of Terahertz Waves in Monolayer Graphene over 2-nm-Wide Metallic Apertures (Advanced Optical Materials 5/2015). Advanced Optical Materials, 2015, 3, 714-714.	3.6	1
165	Fringe-field-activated SOI tilting mirrors. , 0, , .		0
166	Plasmonic nanocavity arrays for enhanced efficiency in organic photovoltaic cells. , 2008, , .		0
167	Plasmonic nano-structures for optical data storage. Proceedings of SPIE, 2009, , .	0.8	0
168	Sub-20 Nanometer Single Molecule Imaging Using Mass Fabricated Pyramidal Microstructures. , 2012, , .		0
169	3D Microelectronics: Self-Assembled Multifunctional 3D Microdevices (Adv. Electron. Mater. 6/2016). Advanced Electronic Materials, 2016, 2, .	2.6	0
170	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.	1.9	0
171	Atomic Layer Lithography of Plasmonic Nanogap Structures for Sensing and Spectroscopy. , 2014, , .		0
172	Mid-Infrared Plasmonic Coaxial Nanorings for Surface Enhanced Infrared Absorption (SEIRA) Spectroscopy. , 2017, , .		0
173	Mid-Infrared Nanoplasmonics for Label-free Real-time Biosensing of Proteins and Lipid Membranes. , 2017, , .		0
174	Enhanced Plasmonic Detection with Dielectrophoretic Concentration. Integrated Analytical Systems, 2018, , 123-146.	0.4	0
175	Surface-Enhanced Infrared Absorption Spectroscopy via Coaxial Zero-Mode Resonators with Sub-10-nm Gaps. , 2018, , .		0
176	Sensitivity of resonance frequency in the detection of thin layer using nano-slit structures. IMA Journal of Applied Mathematics, 2021, 86, 146-164.	0.8	0