Sang-Hyun Oh

List of Publications by Year
in descending order

176	11,997	29994 54	28224 105
papers	citations	h-index	g-index

179	179	179	13215
all docs	docs citations	times ranked	citing authors

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

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19	Infrared Plasmonic Biosensor for Real-Time and Label-Free Monitoring of Lipid Membranes. Nano Letters, 2016, 16, 1502-1508.	4.5	152
20	Plasmonic nano-structures for optical data storage. Optics Express, 2009, 17, 14001.	1.7	150
21	Dielectrophoresis-Enhanced Plasmonic Sensing with Gold Nanohole Arrays. Nano Letters, 2014, 14, 2006-2012.	4.5	149
22	Nanoscale tweezers for single-cell biopsies. Nature Nanotechnology, 2019, 14, 80-88.	15.6	147
23	Nanogap-Enhanced Infrared Spectroscopy with Template-Stripped Wafer-Scale Arrays of Buried Plasmonic Cavities. Nano Letters, 2015, 15, 107-113.	4.5	135
24	Low-Power Optical Trapping of Nanoparticles and Proteins with Resonant Coaxial Nanoaperture Using 10 nm Gap. Nano Letters, 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. ACS Nano, 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. Lab on A Chip, 2009, 9, 382-387.	3.1	126
27	Membrane protein biosensing with plasmonic nanopore arrays and pore-spanning lipid membranes. Chemical Science, 2010, 1, 688.	3.7	118
28	Singleâ€Crystalline Silver Films for Plasmonics. Advanced Materials, 2012, 24, 3988-3992.	11.1	118
29	Plasmonic Nanoholes in a Multichannel Microarray Format for Parallel Kinetic Assays and Differential Sensing. Analytical Chemistry, 2009, 81, 2854-2859.	3.2	112
30	Third-Harmonic Generation Enhancement by Film-Coupled Plasmonic Stripe Resonators. ACS Photonics, 2014, 1, 1212-1217.	3.2	112
31	Three-Dimensional Integration of Black Phosphorus Photodetector with Silicon Photonics and Nanoplasmonics. Nano Letters, 2017, 17, 985-991.	4.5	111
32	Surface plasmon resonance for highâ€throughput ligand screening of membraneâ€bound proteins. Biotechnology Journal, 2009, 4, 1542-1558.	1.8	108
33	Laser-illuminated nanohole arrays for multiplex plasmonic microarray sensing. Optics Express, 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. Analytical Chemistry, 2012, 84, 1941-1947.	3.2	96
35	Influence of the Evanescent Field Decay Length on the Sensitivity of Plasmonic Nanodisks and Nanoholes. ACS Photonics, 2015, 2, 256-262.	3.2	94
36	Tunable Graphene Metasurface Reflectarray for Cloaking, Illusion, and Focusing. Physical Review Applied, 2018, 9, .	1.5	93

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37	Atomic Layer Deposition of Dielectric Overlayers for Enhancing the Optical Properties and Chemical Stability of Plasmonic Nanoholes. ACS Nano, 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. Nano Letters, 2018, 18, 1930-1936.	4.5	88
39	Nanophotonic biosensors harnessing van der Waals materials. Nature Communications, 2021, 12, 3824.	5.8	88
40	Nanoscale Fluorescence Lifetime Imaging of an Optical Antenna with a Single Diamond NV Center. Nano Letters, 2013, 13, 3807-3811.	4.5	85
41	Nanogap-Enhanced Terahertz Sensing of 1 nm Thick (Î»/10⁶) Dielectric Films. ACS Photonics, 2015, 2, 417-424.	3.2	85
42	High-Throughput Fabrication of Resonant Metamaterials with Ultrasmall Coaxial Apertures via Atomic Layer Lithography. Nano Letters, 2016, 16, 2040-2046.	4.5	84
43	Promises and challenges of nanoplasmonic devices for refractometric biosensing. Nanophotonics, 2013, 2, 83-101.	2.9	83
44	Template-Stripped Tunable Plasmonic Devices on Stretchable and Rollable Substrates. ACS Nano, 2015, 9, 10647-10654.	7.3	79
45	Ultrastrong plasmonâ€“phonon coupling via epsilon-near-zero nanocavities. Nature Photonics, 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. Lab on A Chip, 2012, 12, 3882.	3.1	74
47	Performance metrics and enabling technologies for nanoplasmonic biosensors. Nature Communications, 2018, 9, 5263.	5.8	70
48	Graphene-edge dielectrophoretic tweezers for trapping of biomolecules. Nature Communications, 2017, 8, 1867.	5.8	69
49	High-bandwidth radio frequency Coulter counter. Applied Physics Letters, 2005, 87, 184106.	1.5	65
50	Fundamental Limits on the Subthreshold Slope in Schottky Source/Drain Black Phosphorus Field-Effect Transistors. ACS Nano, 2016, 10, 3791-3800.	7.3	65
51	Spatial Coherence in Near-Field Raman Scattering. Physical Review Letters, 2014, 113, 186101.	2.9	63
52	Monolithic Integration of Continuously Tunable Plasmonic Nanostructures. Nano Letters, 2011, 11, 3526-3530.	4.5	59
53	Plasmonic Nanohole Sensor for Capturing Single Virusâ€Like Particles toward Virucidal Drug Evaluation. Small, 2016, 12, 1159-1166.	5.2	57
54	Ultralow-Power Electronic Trapping of Nanoparticles with Sub-10 nm Gold Nanogap Electrodes. Nano Letters, 2016, 16, 6317-6324.	4.5	57

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

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

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91	Perfect Extinction of Terahertz Waves in Monolayer Graphene over 2â€nmâ€Wide Metallic Apertures. Advanced Optical Materials, 2015, 3, 667-673.	3.6	28
92	Fabrication of Smooth Patterned Structures of Refractory Metals, Semiconductors, and Oxides via Template Stripping. ACS Applied Materials & Interfaces, 2013, 5, 9701-9708.	4.0	27
93	Monolithic fringe-field-activated crystalline silicon tilting-mirror devices. Journal of Microelectromechanical Systems, 2003, 12, 702-707.	1.7	26
94	Modeling and observation of mid-infrared nonlocality in effective epsilon-near-zero ultranarrow coaxial apertures. Nature Communications, 2019, 10, 4476.	5.8	26
95	Improved dielectric functions in metallic films obtained via template stripping. Applied Physics Letters, 2012, 100, 081105.	1.5	25
96	Location-specific nanoplasmonic sensing of biomolecular binding to lipid membranes with negative curvature. Nanoscale, 2015, 7, 15080-15085.	2.8	25
97	A hybridizable discontinuous Galerkin method for computing nonlocal electromagnetic effects in three-dimensional metallic nanostructures. Journal of Computational Physics, 2018, 355, 548-565.	1.9	25
98	Impact of Surface Roughness in Nanogap Plasmonic Systems. ACS Photonics, 2020, 7, 908-913.	3.2	25
99	Plasmonic Gas Sensing with Graphene Nanoribbons. Physical Review Applied, 2020, 13, .	1.5	25
100	A Tunable Nanoplasmonic Mirror at an Electrochemical Interface. ACS Photonics, 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. Expert Review of Neurotherapeutics, 2014, 14, 449-463.	1.4	22
102	Influence of Silver Film Quality on the Threshold of Plasmonic Nanowire Lasers. Advanced Optical Materials, 2017, 5, 1600856.	3.6	22
103	Recent Advances in Monoclonal Antibody Therapies for Multiple Sclerosis. Expert Opinion on Biological Therapy, 2016, 16, 827-839.	1.4	21
104	Microfluidic Protein Detection through Genetically Engineered Bacterial Cells. Journal of Proteome Research, 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. Applied Physics Letters, 2007, 91, 253105.	1.5	20
106	Selfâ€Assembled Multifunctional 3D Microdevices. Advanced Electronic Materials, 2016, 2, 1500459.	2.6	20
107	High-Performance Black Phosphorus MOSFETs Using Crystal Orientation Control and Contact Engineering. IEEE Electron Device Letters, 2017, 38, 685-688.	2.2	20
108	Lipid Membrane Deformation Accompanied by Disk-to-Ring Shape Transition of Cholesterol-Rich Domains. Journal of the American Chemical Society, 2015, 137, 8692-8695.	6.6	18

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109	Template-Stripped Multifunctional Wedge and Pyramid Arrays for Magnetic Nanofocusing and Optical Sensing. ACS Applied Materials & Interfaces, 2016, 8, 9319-9326.	4.0	18
110	Mobility Anisotropy in Black Phosphorus MOSFETs With HfO₂ Gate Dielectrics. IEEE Transactions on Electron Devices, 2018, 65, 4093-4101.	1.6	18
111	Surface Plasmon Resonance Study of the Binding of PEOâ€“PPOâ€“PEO Triblock Copolymer and PEO Homopolymer to Supported Lipid Bilayers. Langmuir, 2018, 34, 6703-6712.	1.6	18
112	A patterned recombinant human IgM guides neurite outgrowth of CNS neurons. Scientific Reports, 2013, 3, 2267.	1.6	17
113	Applications of plasmonics: general discussion. Faraday Discussions, 2015, 178, 435-466.	1.6	17
114	Launching surface plasmon waves via vanishingly small periodic gratings. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2016, 33, 276.	0.8	17
115	Cyclical Thinning of Black Phosphorus with High Spatial Resolution for Heterostructure Devices. ACS Applied Materials & Interfaces, 2017, 9, 12654-12662.	4.0	17
116	Plasmonic Split-Trench Resonator for Trapping and Sensing. ACS Nano, 2021, 15, 6669-6677.	7.3	17
117	Human-derived natural antibodies: biomarkers and potential therapeutics. Future Neurology, 2015, 10, 25-39.	0.9	16
118	High-density metallic nanogap arrays for the sensitive detection of single-walled carbon nanotube thin films. Faraday Discussions, 2015, 178, 195-201.	1.6	16
119	Naturally Occurring Monoclonal Antibodies and Their Therapeutic Potential for Neurologic Diseases. JAMA Neurology, 2015, 72, 1346.	4.5	16
120	Multimodal Photodiode and Phototransistor Device Based on Two-Dimensional Materials. ACS Nano, 2016, 10, 10500-10506.	7.3	16
121	Periodic modulation of extraordinary optical transmission through subwavelength hole arrays using surrounding Bragg mirrors. Physical Review B, 2007, 76, .	1.1	15
122	Waveguide-integrated mid-infrared plasmonics with high-efficiency coupling for ultracompact surface-enhanced infrared absorption spectroscopy. Optics Express, 2018, 26, 23540.	1.7	15
123	Ultraflat Sub-10 Nanometer Gap Electrodes for Two-Dimensional Optoelectronic Devices. ACS Nano, 2021, 15, 5276-5283.	7.3	15
124	Oxidation Sharpening, Template Stripping, and Passivation of Ultraâ€Sharp Metallic Pyramids and Wedges. Small, 2014, 10, 680-684.	5.2	14
125	Polarization interferometry for real-time spectroscopic plasmonic sensing. Nanoscale, 2015, 7, 4226-4233.	2.8	14
126	Continuity of Monolayer-Bilayer Junctions for Localization of Lipid Raft Microdomains in Model Membranes. Scientific Reports, 2016, 6, 26823.	1.6	14

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127	Field enhancement and saturation of millimeter waves inside a metallic nanogap. Optics Express, 2014, 22, 14402.	1.7	13
128	Nanohole Array-Directed Trapping of Mammalian Mitochondria Enabling Single Organelle Analysis. Analytical Chemistry, 2015, 87, 11973-11977.	3.2	13
129	Surface passivation of a photonic crystal band-edge laser by atomic layer deposition of SiO₂and its application for biosensing. Nanoscale, 2015, 7, 3565-3571.	2.8	13
130	High-Density Arrays of Submicron Spherical Supported Lipid Bilayers. Analytical Chemistry, 2012, 84, 8207-8213.	3.2	12
131	Fast high-order perturbation of surfaces methods for simulation of multilayer plasmonic devices and metamaterials. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, 1820.	0.8	12
132	Dielectrophoresis-Assisted Raman Spectroscopy of Intravesicular Analytes on Metallic Pyramids. Analytical Chemistry, 2016, 88, 1704-1710.	3.2	12
133	Nanoâ€Optical Tweezers: Methods and Applications for Trapping Single Molecules and Nanoparticles. ChemPhysChem, 2021, 22, 1409-1420.	1.0	12
134	Three-Dimensional Anisotropic Metamaterials as Triaxial Optical Inclinometers. Scientific Reports, 2017, 7, 2680.	1.6	11
135	Plasmonic nanohole arrays for real-time multiplex biosensing. Proceedings of SPIE, 2008, , .	0.8	10
136	Accessing the Exceptional Points in a Graphene Plasmonâ€“Vibrational Mode Coupled System. ACS Photonics, 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. Journal of Physical Chemistry C, 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. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2013, 30, 2175.	0.8	9
139	Attenuation Mechanism Effect on Filter Shape in Channelized Dynamic Spectral Equalizers. Applied Optics, 2004, 43, 127.	2.1	8
140	Escalated Photocurrent with Excitation Energy in Dual-Gated MoTe₂. Nano Letters, 2021, 21, 1976-1981.	4.5	8
141	CRABP1-CaMKII-Agrn regulates the maintenance of neuromuscular junction in spinal motor neuron. Cell Death and Differentiation, 2022, 29, 1744-1756.	5.0	8
142	Open-channel microfluidics via resonant wireless power transfer. Nature Communications, 2022, 13, 1869.	5.8	8
143	Kinetics of lipid raft formation at lipid monolayer-bilayer junction probed by surface plasmon resonance. Biosensors and Bioelectronics, 2019, 142, 111568.	5.3	7
144	Size-Reduction Template Stripping of Smooth Curved Metallic Tips for Adiabatic Nanofocusing of Surface Plasmons. ACS Applied Materials & Interfaces, 2016, 8, 13624-13629.	4.0	6

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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 Elasticityâ€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	Nanoâ€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 oOptical data storage. , 2009, , .		1

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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: Selfâ€Assembled Multifunctional 3D Microdevices (Adv. Electron. Mater. 6/2016). Advanced Electronic Materials, 2016, 2, .	2.6	0
170	Lipid Membranes: Curvature Elasticityâ€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