Hatice Altug

List of Publications by Year
in descending order

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167 papers	13,945 citations	22153 59 h-index	24982 109 g-index
170 all docs	170 docs citations	170 times ranked	11944 citing authors

#	Article	IF	Citations
1	Mid-infrared plasmonic biosensing with graphene. Science, 2015, 349, 165-168.	12.6	1,167
2	Fano-resonant asymmetric metamaterials for ultrasensitive spectroscopy and identification ofÂmolecular monolayers. Nature Materials, 2012, 11, 69-75.	27.5	930
3	Imaging-based molecular barcoding with pixelated dielectric metasurfaces. Science, 2018, 360, 1105-1109.	12.6	726
4	Ultra-sensitive vibrational spectroscopy of protein monolayers with plasmonic nanoantenna arrays. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 19227-19232.	7.1	593
5	Ultrasensitive hyperspectral imaging and biodetection enabled by dielectric metasurfaces. Nature Photonics, 2019, 13, 390-396.	31.4	546
6	Ultrafast photonic crystal nanocavity laser. Nature Physics, 2006, 2, 484-488.	16.7	530
7	Dual-Band Perfect Absorber for Multispectral Plasmon-Enhanced Infrared Spectroscopy. ACS Nano, 2012, 6, 7998-8006.	14.6	459
8	Seeing protein monolayers with naked eye through plasmonic Fano resonances. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 11784-11789.	7.1	445
9	An Optofluidic Nanoplasmonic Biosensor for Direct Detection of Live Viruses from Biological Media. Nano Letters, 2010, 10, 4962-4969.	9.1	408
10	In-situ ultra-sensitive infrared absorption spectroscopy of biomolecule interactions in real time with plasmonic nanoantennas. Nature Communications, 2013, 4, 2154.	12.8	319
11	Advances and applications of nanophotonic biosensors. Nature Nanotechnology, 2022, 17, 5-16.	31.5	308
12	Handheld high-throughput plasmonic biosensor using computational on-chip imaging. Light: Science and Applications, 2014, 3, e122-e122.	16.6	299
13	Angle-multiplexed all-dielectric metasurfaces for broadband molecular fingerprint retrieval. Science Advances, 2019, 5, eaaw2871.	10.3	294
14	Fano Resonant Ring/Disk Plasmonic Nanocavities on Conducting Substrates for Advanced Biosensing. ACS Nano, 2012, 6, 9989-9995.	14.6	286
15	Flexible Plasmonics on Unconventional and Nonplanar Substrates. Advanced Materials, 2011, 23, 4422-4430.	21.0	221
16	Multispectral Plasmon Induced Transparency in Coupled Meta-Atoms. Nano Letters, 2011, 11, 1685-1689.	9.1	220
17	High-Throughput Nanofabrication of Infrared Plasmonic Nanoantenna Arrays for Vibrational Nanospectroscopy. Nano Letters, 2010, 10, 2511-2518.	9.1	209
18	Integrated nanoplasmonic-nanofluidic biosensors with targeted delivery of analytes. Applied Physics Letters, 2010, 96, .	3.3	188

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19	Resolving molecule-specific information in dynamic lipid membrane processes with multi-resonant infrared metasurfaces. Nature Communications, 2018, 9, 2160.	12.8	176
20	Breaking Lorentz reciprocity to overcome the time-bandwidth limit in physics and engineering. Science, 2017, 356, 1260-1264.	12.6	174
21	Engineered Absorption Enhancement and Induced Transparency in Coupled Molecular and Plasmonic Resonator Systems. Nano Letters, 2013, 13, 2584-2591.	9.1	162
22	Tumor-specific cytolytic CD4 T cells mediate immunity against human cancer. Science Advances, 2021, 7, .	10.3	157
23	Infrared Plasmonic Biosensor for Real-Time and Label-Free Monitoring of Lipid Membranes. Nano Letters, 2016, 16, 1502-1508.	9.1	152
24	Plasmonic Nanohole Arrays on a Robust Hybrid Substrate for Highly Sensitive Label-Free Biosensing. ACS Photonics, 2015, 2, 1167-1174.	6.6	151
25	Allâ€Dielectric Programmable Huygens' Metasurfaces. Advanced Functional Materials, 2020, 30, 1910259.	14.9	149
26	Double-layer graphene for enhanced tunable infrared plasmonics. Light: Science and Applications, 2017, 6, e16277-e16277.	16.6	143
27	Dielectric Metasurfaces Enabling Advanced Optical Biosensors. ACS Photonics, 2021, 8, 47-60.	6.6	143
28	Directional Double Fano Resonances in Plasmonic Hetero-Oligomers. Nano Letters, 2011, 11, 3694-3700.	9.1	142
29	Photonic crystal nanocavity array laser. Optics Express, 2005, 13, 8819.	3.4	139
30	Nanophotonic Platforms for Enhanced Chiral Sensing. ACS Photonics, 2018, 5, 2669-2675.	6.6	138
31	Imaging-based spectrometer-less optofluidic biosensors based on dielectric metasurfaces for detecting extracellular vesicles. Nature Communications, 2021, 12, 3246.	12.8	137
32	Lensfree optofluidic plasmonic sensor for real-time and label-free monitoring of molecular binding events over a wide field-of-view. Scientific Reports, 2014, 4, 6789.	3.3	134
33	Phase-sensitive plasmonic biosensor using a portable and large field-of-view interferometric microarray imager. Light: Science and Applications, 2018, 7, 17152-17152.	16.6	134
34	Plasmonic nanohole array biosensor for label-free and real-time analysis of live cell secretion. Lab on A Chip, 2017, 17, 2208-2217.	6.0	125
35	Nanoparticle-Enhanced Plasmonic Biosensor for Digital Biomarker Detection in a Microarray. ACS Nano, 2018, 12, 4453-4461.	14.6	123
36	Sub-wavelength nanofluidics in photonic crystal sensors. Optics Express, 2009, 17, 24224.	3.4	114

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37	Engineering mid-infrared nanoantennas for surface enhanced infrared absorption spectroscopy. Materials Today, 2015, 18, 436-446.	14.2	113
38	Multiplexed nanoplasmonic biosensor for one-step simultaneous detection of Chlamydia trachomatis and Neisseria gonorrhoeae in urine. Biosensors and Bioelectronics, 2017, 94, 560-567.	10.1	108
39	Radiative engineering of plasmon lifetimes in embedded nanoantenna arrays. Optics Express, 2010, 18, 4526.	3.4	107
40	Experimental demonstration of the slow group velocity of light in two-dimensional coupled photonic crystal microcavity arrays. Applied Physics Letters, 2005, 86, 111102.	3.3	103
41	Two-dimensional coupled photonic crystal resonator arrays. Applied Physics Letters, 2004, 84, 161-163.	3.3	98
42	Nanoplasmonic mid-infrared biosensor for in vitro protein secondary structure detection. Light: Science and Applications, 2017, 6, e17029-e17029.	16.6	93
43	Metasurfaceâ€Based Molecular Biosensing Aided by Artificial Intelligence. Angewandte Chemie - International Edition, 2019, 58, 14810-14822.	13.8	89
44	High-Contrast Infrared Absorption Spectroscopy via Mass-Produced Coaxial Zero-Mode Resonators with Sub-10 nm Gaps. Nano Letters, 2018, 18, 1930-1936.	9.1	88
45	Nanophotonic biosensors harnessing van der Waals materials. Nature Communications, 2021, 12, 3824.	12.8	88
46	Fabryâ€“PÃ©rot nanocavities in multilayered plasmonic crystals for enhanced biosensing. Applied Physics Letters, 2009, 95, .	3.3	87
47	Large-scale plasmonic microarrays for label-free high-throughput screening. Lab on A Chip, 2011, 11, 3596.	6.0	87
48	Accessible Superchiral Near-Fields Driven by Tailored Electric and Magnetic Resonances in All-Dielectric Nanostructures. ACS Photonics, 2019, 6, 1939-1946.	6.6	82
49	Self-assembly of nanostructured glass metasurfaces via templated fluid instabilities. Nature Nanotechnology, 2019, 14, 320-327.	31.5	80
50	Monopole antenna arrays for optical trapping, spectroscopy, and sensing. Applied Physics Letters, 2011, 98, .	3.3	72
51	Accessible Nearfields by Nanoantennas on Nanopedestals for Ultrasensitive Vibrational Spectroscopy. Advanced Optical Materials, 2014, 2, 866-872.	7.3	72
52	Early sepsis diagnosis via protein and miRNA biomarkers using a novel point-of-care photonic biosensor. Analytica Chimica Acta, 2019, 1077, 232-242.	5.4	71
53	Performance metrics and enabling technologies for nanoplasmonic biosensors. Nature Communications, 2018, 9, 5263.	12.8	70
54	Labelâ€Free Optofluidic Nanobiosensor Enables Realâ€Time Analysis of Singleâ€Cell Cytokine Secretion. Small, 2018, 14, e1800698.	10.0	70

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55	Ultrafast and Broadband Tuning of Resonant Optical Nanostructures Using Phaseâ€Change Materials. Advanced Optical Materials, 2016, 4, 1060-1066.	7.3	67
56	Rapid and Digital Detection of Inflammatory Biomarkers Enabled by a Novel Portable Nanoplasmonic Imager. Small, 2020, 16, e1906108.	10.0	67
57	Infrared Metasurface Augmented by Deep Learning for Monitoring Dynamics between All Major Classes of Biomolecules. Advanced Materials, 2021, 33, e2006054.	21.0	65
58	On Chip Plasmonic Monopole Nano-Antennas and Circuits. Nano Letters, 2011, 11, 5219-5226.	9.1	64
59	Waferâ€Scale Functional Metasurfaces for Midâ€Infrared Photonics and Biosensing. Advanced Materials, 2021, 33, e2102232.	21.0	64
60	Ultrafast photonic crystal lasers. Laser and Photonics Reviews, 2008, 2, 264-274.	8.7	60
61	Self-Similar Multiresonant Nanoantenna Arrays for Sensing from Near- to Mid-Infrared. ACS Photonics, 2018, 5, 4903-4911.	6.6	59
62	Plasmon induced transparency in cascaded Ï€-shaped metamaterials. Optics Express, 2011, 19, 22607.	3.4	57
63	Thermal Tuning of Surface Plasmon Polaritons Using Liquid Crystals. Advanced Optical Materials, 2013, 1, 915-920.	7.3	54
64	Multi-resonant compact nanoaperture with accessible large nearfields. Applied Physics B: Lasers and Optics, 2015, 118, 29-38.	2.2	53
65	Real-Time In Situ Secondary Structure Analysis of Protein Monolayer with Mid-Infrared Plasmonic Nanoantennas. ACS Sensors, 2018, 3, 1109-1117.	7.8	51
66	Multi-resonant metamaterials based on UT-shaped nano-aperture antennas. Optics Express, 2011, 19, 7921.	3.4	50
67	Quantifying the Limits of Detection of Surface-Enhanced Infrared Spectroscopy with Grating Order-Coupled Nanogap Antennas. ACS Photonics, 2018, 5, 4117-4124.	6.6	46
68	Nanoimaging and Control of Molecular Vibrations through Electromagnetically Induced Scattering Reaching the Strong Coupling Regime. ACS Photonics, 2018, 5, 3594-3600.	6.6	46
69	Polarization control and sensing with two-dimensional coupled photonic crystal microcavity arrays. Optics Letters, 2005, 30, 982.	3.3	45
70	Plasmonically Enhanced Vibrational Biospectroscopy Using Lowâ€Cost Infrared Antenna Arrays by Nanostencil Lithography. Advanced Optical Materials, 2013, 1, 798-803.	7.3	45
71	Label-free Bacteria Quantification in Blood Plasma by a Bioprinted Microarray Based Interferometric Point-of-Care Device. ACS Sensors, 2019, 4, 52-60.	7.8	45
72	Mid-infrared photothermal heterodyne spectroscopy in a liquid crystal using a quantum cascade laser. Applied Physics Letters, 2012, 101, 044101.	3.3	44

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73	Low-threshold surface-passivated photonic crystal nanocavity laser. Applied Physics Letters, 2007, 91, 071124.	3.3	43
74	Extraordinary midinfrared transmission of rectangular coaxial nanoaperture arrays. Applied Physics Letters, 2008, 93, .	3.3	41
75	Actively transporting virus like analytes with optofluidics for rapid and ultrasensitive biodetection. Lab on A Chip, 2013, 13, 4841.	6.0	39
76	Hybrid Metal-Dielectric Metasurfaces for Refractive Index Sensing. Nano Letters, 2020, 20, 8752-8759.	9.1	39
77	Nanoparticle-Based Metamaterials as Multiband Plasmonic Resonator Antennas. IEEE Nanotechnology Magazine, 2012, 11, 208-212.	2.0	38
78	Nonlinear Midinfrared Photothermal Spectroscopy Using Zharov Splitting and Quantum Cascade Lasers. ACS Photonics, 2014, 1, 696-702.	6.6	32
79	Rational design and optimization of plasmonic nanoarrays for surface enhanced infrared spectroscopy. Optics Express, 2012, 20, 11953.	3.4	30
80	Ultrabroadband 3D invisibility with fast-light cloaks. Nature Communications, 2019, 10, 4859.	12.8	30
81	Field-effect active plasmonics for ultracompact electro-optic switching. Applied Physics Letters, 2012, 101, 121113.	3.3	29
82	Dual-band plasmonic resonator based on Jerusalem cross-shaped nanoapertures. Photonics and Nanostructures - Fundamentals and Applications, 2015, 15, 73-80.	2.0	29
83	Hybridized nanocavities as single-polarizedâ€¨plasmonic antennas. Optics Express, 2009, 17, 20900.	3.4	28
84	Angle-and polarization-dependent collective excitation of plasmonic nanoarrays for surface enhanced infrared spectroscopy. Optics Express, 2011, 19, 11202.	3.4	27
85	Metasurfaceâ€Enhanced Infrared Spectroscopy: An Abundance of Materials and Functionalities. Advanced Materials, 2023, 35, .	21.0	25
86	Reusable Nanostencils for Creating Multiple Biofunctional Molecular Nanopatterns on Polymer Substrate. Nano Letters, 2012, 12, 4817-4822.	9.1	24
87	Two-Dimensional Label-Free Affinity Analysis of Tumor-Specific CD8 T Cells with a Biomimetic Plasmonic Sensor. ACS Sensors, 2018, 3, 2286-2295.	7.8	24
88	Three-Dimensional Crystalline and Homogeneous Metallic Nanostructures Using Directed Assembly of Nanoparticles. ACS Nano, 2014, 8, 4547-4558.	14.6	21
89	Theoretical and experimental analysis of subwavelength bowtie-shaped antennas. Journal of Electromagnetic Waves and Applications, 2015, 29, 1686-1698.	1.6	18
90	Efficient terahertz room-temperature photonic crystal nanocavity laser. Applied Physics Letters, 2007, 91, 071126.	3.3	15

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91	Fabrication of Sub-10-nm Plasmonic Gaps for Ultra-Sensitive Raman Spectroscopy. Plasmonics, 2020, 15, 1165-1171.	3.4	15
92	Plasmon coupling in extended structures: Graphene superlattice nanoribbon arrays. Physical Review B, 2016, 93, .	3.2	10
93	Mining the Potential of Label-Free Biosensors for In Vitro Antipsychotic Drug Screening. Biosensors, 2018, 8, 6.	4.7	10
94	Real-time monitoring of single-cell secretion with a high-throughput nanoplasmonic microarray. Biosensors and Bioelectronics, 2022, 202, 113955.	10.1	10
95	Time-resolved lasing action from single and coupled photonic crystal nanocavity array lasers emitting in the telecom band. Journal of Applied Physics, 2009, 105, 093110.	2.5	6
96	Arbitrarily high time bandwidth performance in a nonreciprocal optical resonator with broken time invariance. Scientific Reports, 2020, 10, 15752.	3.3	6
97	Flexible Plasmonics: Flexible Plasmonics on Unconventional and Nonplanar Substrates (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT /Overl	21.0	4
98	Metaoberflâchenâ€basierte molekulare Biosensorik unterstÃ¼tzt von kÃ¼nstlicher Intelligenz. Angewandte Chemie, 2019, 131, 14952-14965.	2.0	4
99	Enhanced Circular Dichroism and Chiral Sensing with Bound States in the Continuum. , 2019, , .		4
100	Nanostencil lithography for high-throughput fabrication of infrared plasmonic sensors. , 2011, , .		3
101	Lithography: Plasmonically Enhanced Vibrational Biospectroscopy Using Lowâ€Cost Infrared Antenna Arrays by Nanostencil Lithography (Advanced Optical Materials 11/2013). Advanced Optical Materials, 2013, 1, 780-780.	7.3	3
102	Huygens' Metasurfaces: Allâ€Dielectric Programmable Huygens' Metasurfaces (Adv. Funct. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	14.9	3
103	Reply to â€˜Physical limitations on broadband invisibility based on fast-light mediaâ€™. Nature Communications, 2021, 12, 2800.	12.8	3
104	Ultrafast photonic crystal nanocavity lasers and optical switches. , 2008, , .		2
105	Ultrasensitive plasmonic sensors mold the flow of light and fluidics. SPIE Newsroom, 0, , .	0.1	2
106	Plasmonic Nanoantennas on Nanopedestals for Ultra-Sensitive Vibrational IR-Spectroscopy. , 2015, , .		2
107	High-Throughput and Ultra-Sensitive Biosensing and Spectroscopy by Plasmonics. NATO Science for Peace and Security Series B: Physics and Biophysics, 2017, , 275-282.	0.3	2
108	Optofluidic nanoplasmonic biosensor for label-free live cell analysis in real time. , 2018, , .		2

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109	Optical Transmission through Optically Thin and Thick Sub-wavelength Hole Arrays. Materials Research Society Symposia Proceedings, 2009, 1208, 1.	0.1	1
110	Plasmonics for ultrasensitive biomolecular nanospectroscopy. , 2010, , .		1
111	High-throughput nanofabrication of plasmonic structures and metamaterials with high resolution nanostencil lithography. Proceedings of SPIE, 2011, , .	0.8	1
112	Multi-Band Surface Enhanced Infrared Absorption Spectroscopy of Molecular Monolayers. , 2013, , .		1
113	Infrared Vibrational Molecular Hybridization with a Single Optical Antenna. , 2015, , .		1
114	Chemical-specific biosensing through mid-infrared graphene plasmons. , 2016, , .		1
115	Nanophotonic Metasurfaces for Biosensing and Imaging. EPJ Web of Conferences, 2019, 215, 12001.	0.3	1
116	Biosensors: Infrared Metasurface Augmented by Deep Learning for Monitoring Dynamics between All Major Classes of Biomolecules (Adv. Mater. 14/2021). Advanced Materials, 2021, 33, 2170110.	21.0	1
117	Programmable Huygensâ€™ metasurfaces for active optical phase control. , 2021, , .		1
118	All-dielectric Metasurfaces for Infrared Absorption Spectroscopy Applications. , 2019, , .		1
119	Photonic Metasurfaces for Next-Generation Biosensors. , 2018, , .		1
120	Waferâ€Scale Functional Metasurfaces for Midâ€Infrared Photonics and Biosensing (Adv. Mater. 43/2021). Advanced Materials, 2021, 33, 2170337.	21.0	1
121	High Resolution Large Area Nanopatterning for Plasmonics and Metamaterials with Nanostencil Lithography. , 2011, , .		1
122	Nanophotonic Biosensors: from Plasmonic to Dielectric Metasurfaces. , 2019, , .		1
123	Lens-Free Interferometric Microscope for Point-of-Care Label-Free Detection of Sepsis Biomarkers. , 2019, , .		1
124	Label-free, scalable and point-of-care imaging platform for rapid analysis of biomarker. , 2019, , .		1
125	Quantum optics and quantum information processing with photonic crystal devices. , 2006, , LWG2.		0
126	Photonic Crystal Microcavities for Classical and Quantum Information Processing. , 2006, , .		0

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127	High modulation speed photonic crystal nanocavity array laser. , 2006, , .		0
128	High Speed Dynamics of Photonic Crystal Nanocavity Laser. , 2006, , .		0
129	Coupled nanocavity arrays. , 2007, , .		0
130	Photonic Crystal Surface Mode Laser. , 2007, , .		0
131	Efficient Terahertz Room-Temperature Photonic Crystal Laser. , 2007, , .		0
132	Photonic crystal surface mode laser. , 2007, , .		0
133	Low-Threshold Ultrafast Surface-Passivated Photonic Crystal Nanocavity Lasers. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	0
134	Photonic crystal chips for optical interconnects and quantum information processing. Proceedings of SPIE, 2008, , .	0.8	0
135	Surface excitation of hybridized plasmons in metallic nanocavities. , 2009, , .		0
136	Surface Enhanced Vibrational Spectroscopy of Proteins with Plasmonic Nanoantenna Arrays. Materials Research Society Symposia Proceedings, 2010, 1248, 1002.	0.1	0
137	Novel plasmonic biosensors molding the flow of light and fluidics at subdiffraction limit. , 2010, , .		0
138	Engineered plasmonic nanoantenna arrays with nanostencil lithography. , 2010, , .		0
139	Nanoplasmonic systems for ultrasensitive biomolecular detection and identification. , 2010, , .		0
140	High-throughput Fabrication of Plasmonic Nanoantenna Arrays Using Nanostencils for Spectroscopy and Biosensing. , 2011, , .		0
141	Optical properties of UT-shaped plasmonic nanoaperture antennas. Proceedings of SPIE, 2011, , .	0.8	0
142	High-throughput engineering of infrared plasmonic nanoantenna arrays with nanostencil lithography. Proceedings of SPIE, 2011, , .	0.8	0
143	Plasmon enhanced detectors for smart lighting applications. , 2011, , .		0
144	Compact and multi-resonant plasmonic metamaterials based on nano-apertures. , 2011, , .		0

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145	Integrated plasmonic systems for ultrasensitive spectroscopy and biodetection. , 2011, , .		0
146	Optical Trapping, Biosensing, and Spectroscopy in a Single Plasmonic Platform. Materials Research Society Symposia Proceedings, 2012, 1414, 15.	0.1	0
147	Dynamic Tuning of Surface Plasmon Polaritons via Thermally Controlled Liquid Crystals. , 2014, , .		0
148	Field-portable optofluidic plasmonic biosensor for wide-field and label-free monitoring of molecular interactions. , 2015, , .		0
149	Plasmonic and Dielectric Metasurfaces for Molecular Specific Mid-IR Biosensors. , 2018, , .		0
150	All-Dielectric High-Q Metasurfaces for Infrared Absorption Spectroscopy Applications. , 2019, , .		0
151	All-dielectric Metasurfaces Enabling Imaging-based Real-time Biosensing. , 2021, , .		0
152	Infrared Metasurfaces Augmented by Artificial Intelligence for Monitoring Dynamics between All Major Classes of Biomolecules. , 2021, , .		0
153	Imaging-based Optofluidic Biosensors Enabled by All-dielectric metasurfaces. , 2021, , .		0
154	Functional mid-infrared metasurfaces for optical wavefront manipulation, sensing and dynamic phase control. , 2021, , .		0
155	Room-Temperature Low-Threshold GaAs/InGaAs Photonic Crystal Laser. , 2007, , .		0
156	Terahertz Room-Temperature Photonic Crystal Laser. , 2007, , .		0
157	Metamaterials, Plasmonics, and Nanofluidics for Ultrasensitive Spectroscopy and Bio-detection. , 2011, , .		0
158	Accessible Field Enhancements with Plasmonic Nanoparticles on Nanopedestals for Nanospectroscopy. , 2011, , .		0
159	Asymmetric Ring/Disk Nanocavities on Conducting Substrates for Strong Fano-Interference. , 2013, , .		0
160	Ultra-sensitive time-resolved infrared spectroscopy of biomolecule interactions with plasmonic nanoantennas. , 2014, , .		0
161	Graphene as Enabling Material for Infrared Plasmonic Biosensors. , 2016, , .		0
162	Mid-IR Nanophotonics for Surface Enhanced Spectroscopy. , 2018, , .		0

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163	Demonstration of ultra-high time-bandwidth product in a non-reciprocal fiber-optic system. , 2018, , .		0
164	Towards a point-of-care nanoplasmonic biosensor for rapid and multiplexed detection of pathogenic infections. , 2018, , .		0
165	Integrated Nanophotonic Biosensors for Point-of Care Diagnostics and Bioanalytical Applications. , 2019, , .		0
166	Rapid and Digital Detection of Inflammatory Biomarkers Enabled by a Novel Portable Nanoplasmonic Imager. , 2020, , .		0
167	Infrared Metasurfaces and Artificial Intelligence for Monitoring Dynamics between Biomolecules. , 2021, , .		0