## **Rainer Hillenbrand**

List of Publications by Year in descending order

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	9756	11030
19,576	73	137
citations	h-index	g-index
191	191	12764
docs citations	times ranked	citing authors
	19,576 citations 191 docs citations	19,576 citations 19,576 73 h-index 191 191 191 191 times ranked

#	Article	IF	CITATIONS
1	Optical nano-imaging of gate-tunable graphene plasmons. Nature, 2012, 487, 77-81.	13.7	1,820
2	Highly confined low-loss plasmons in graphene–boron nitride heterostructures. Nature Materials, 2015, 14, 421-425.	13.3	847
3	Phonon-enhanced light–matter interaction at the nanometre scale. Nature, 2002, 418, 159-162.	13.7	733
4	Near-field microscopy by elastic light scattering from a tip. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 787-805.	1.6	518
5	Near-Field Microscopy Through a SiC Superlens. Science, 2006, 313, 1595-1595.	6.0	513
6	In-plane anisotropic and ultra-low-loss polaritons in a natural van der Waals crystal. Nature, 2018, 562, 557-562.	13.7	506
7	Terahertz Near-Field Nanoscopy of Mobile Carriers in Single Semiconductor Nanodevices. Nano Letters, 2008, 8, 3766-3770.	4.5	483
8	Nano-FTIR Absorption Spectroscopy of Molecular Fingerprints at 20Ânm Spatial Resolution. Nano Letters, 2012, 12, 3973-3978.	4.5	477
9	Pseudoheterodyne detection for background-free near-field spectroscopy. Applied Physics Letters, 2006, 89, 101124.	1.5	426
10	Controlling the near-field oscillations of loaded plasmonic nanoantennas. Nature Photonics, 2009, 3, 287-291.	15.6	424
11	Complex Optical Constants on a Subwavelength Scale. Physical Review Letters, 2000, 85, 3029-3032.	2.9	396
12	Infrared hyperbolic metasurface based on nanostructured van der Waals materials. Science, 2018, 359, 892-896.	6.0	344
13	Structural analysis and mapping of individual protein complexes by infrared nanospectroscopy. Nature Communications, 2013, 4, 2890.	5.8	319
14	Controlling graphene plasmons with resonant metal antennas and spatial conductivity patterns. Science, 2014, 344, 1369-1373.	6.0	292
15	Analytical model for quantitative prediction of material contrasts in scattering-type near-field optical microscopy. Optics Express, 2007, 15, 8550.	1.7	276
16	Direct observation of ultraslow hyperbolic polariton propagation with negative phase velocity. Nature Photonics, 2015, 9, 674-678.	15.6	268
17	Acoustic terahertz graphene plasmons revealed by photocurrent nanoscopy. Nature Nanotechnology, 2017, 12, 31-35.	15.6	257
18	Boron nitride nanoresonators for phonon-enhanced molecular vibrational spectroscopy at the strong coupling limit. Light: Science and Applications, 2018, 7, 17172-17172.	7.7	257

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19	Infrared-spectroscopic nanoimaging with a thermal source. Nature Materials, 2011, 10, 352-356.	13.3	254
20	Tuning quantum nonlocal effects in graphene plasmonics. Science, 2017, 357, 187-191.	6.0	251
21	Infrared Spectroscopic Mapping of Single Nanoparticles and Viruses at Nanoscale Resolution. Nano Letters, 2006, 6, 1307-1310.	4.5	226
22	Electronic and plasmonic phenomena at graphene grain boundaries. Nature Nanotechnology, 2013, 8, 821-825.	15.6	226
23	Resolving the electromagnetic mechanism of surface-enhanced light scattering at single hot spots. Nature Communications, 2012, 3, 684.	5.8	207
24	Nanofocusing of mid-infrared energy with tapered transmission lines. Nature Photonics, 2011, 5, 283-287.	15.6	203
25	Designer Magnetoplasmonics with Nickel Nanoferromagnets. Nano Letters, 2011, 11, 5333-5338.	4.5	203
26	Nanoscale polymer recognition by spectral signature in scattering infrared near-field microscopy. Applied Physics Letters, 2004, 85, 5064-5066.	1.5	185
27	Material-specific mapping of metal/semiconductor/dielectric nanosystems at 10 nm resolution by backscattering near-field optical microscopy. Applied Physics Letters, 2002, 80, 25-27.	1.5	178
28	Plasmonic Nickel Nanoantennas. Small, 2011, 7, 2341-2347.	5.2	175
29	Pure optical contrast in scattering-type scanning near-field microscopy. Journal of Microscopy, 2001, 202, 77-83.	0.8	172
30	Real-space mapping of tailored sheet and edge plasmons in graphene nanoresonators. Nature Photonics, 2016, 10, 239-243.	15.6	167
31	Coherent imaging of nanoscale plasmon patterns with a carbon nanotube optical probe. Applied Physics Letters, 2003, 83, 368-370.	1.5	157
32	Near-field imaging of mid-infrared surface phonon polariton propagation. Applied Physics Letters, 2005, 87, 081103.	1.5	157
33	Performance of visible and mid-infrared scattering-type near-field optical microscopes. Journal of Microscopy, 2003, 210, 311-314.	0.8	155
34	Experimental demonstration of the microscopic origin of circular dichroism in two-dimensional metamaterials. Nature Communications, 2016, 7, 12045.	5.8	155
35	Nanohole Plasmons in Optically Thin Gold Films. Journal of Physical Chemistry C, 2007, 111, 1207-1212.	1.5	151
36	Quantitative Measurement of Local Infrared Absorption and Dielectric Function with Tip-Enhanced Near-Field Microscopy. Journal of Physical Chemistry Letters, 2013, 4, 1526-1531.	2.1	151

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37	Phase-Resolved Mapping of the Near-Field Vector and Polarization State in Nanoscale Antenna Gaps. Nano Letters, 2010, 10, 3524-3528.	4.5	150
38	Nanoscale-resolved subsurface imaging by scattering-type near-field optical microscopy. Optics Express, 2005, 13, 8893.	1.7	145
39	Experimental Verification of the Spectral Shift between Near- and Far-Field Peak Intensities of Plasmonic Infrared Nanoantennas. Physical Review Letters, 2013, 110, 203902.	2.9	144
40	Fast and Sensitive Terahertz Detection Using an Antenna-Integrated Graphene pn Junction. Nano Letters, 2019, 19, 2765-2773.	4.5	144
41	Interface nano-optics with van der Waals polaritons. Nature, 2021, 597, 187-195.	13.7	143
42	Subwavelength-scale tailoring of surface phonon polaritons by focused ion-beam implantation. Nature Materials, 2004, 3, 606-609.	13.3	141
43	Thermoelectric detection and imaging of propagating grapheneÂplasmons. Nature Materials, 2017, 16, 204-207.	13.3	141
44	Hyperspectral infrared nanoimaging of organic samples based on Fourier transform infrared nanospectroscopy. Nature Communications, 2017, 8, 14402.	5.8	133
45	Real-Space Mapping of Fano Interference in Plasmonic Metamolecules. Nano Letters, 2011, 11, 3922-3926.	4.5	129
46	Broad spectral tuning of ultra-low-loss polaritons in a van der Waals crystal by intercalation. Nature Materials, 2020, 19, 964-968.	13.3	129
47	Nanoscale Free-Carrier Profiling of Individual Semiconductor Nanowires by Infrared Near-Field Nanoscopy. Nano Letters, 2010, 10, 1387-1392.	4.5	122
48	Strong Plasmon Reflection at Nanometer-Size Gaps in Monolayer Graphene on SiC. Nano Letters, 2013, 13, 6210-6215.	4.5	121
49	Nanoimaging of resonating hyperbolic polaritons in linear boron nitride antennas. Nature Communications, 2017, 8, 15624.	5.8	121
50	Higher-harmonics generation in tapping-mode atomic-force microscopy: Insights into the tip–sample interaction. Applied Physics Letters, 2000, 76, 3478-3480.	1.5	120
51	Resonant Antenna Probes for Tip-Enhanced Infrared Near-Field Microscopy. Nano Letters, 2013, 13, 1065-1072.	4.5	114
52	Nanoscale terahertz scanning probe microscopy. Nature Photonics, 2021, 15, 558-569.	15.6	112
53	Probing low-energy hyperbolic polaritons in van der Waals crystals with an electron microscope. Nature Communications, 2017, 8, 95.	5.8	111
54	Optical Nanoimaging of Hyperbolic Surface Polaritons at the Edges of van der Waals Materials. Nano Letters, 2017, 17, 228-235.	4.5	107

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55	Influence of the tip in near-field imaging of nanoparticle plasmonic modes: Weak and strong coupling regimes. Physical Review B, 2009, 79, .	1.1	104
56	Substrate-enhanced infrared near-field spectroscopy. Optics Express, 2008, 16, 1529.	1.7	103
57	Infrared nanoscopy of strained semiconductors. Nature Nanotechnology, 2009, 4, 153-157.	15.6	102
58	Optical oscillation modes of plasmon particles observed in direct space by phase-contrast near-field microscopy. Applied Physics B: Lasers and Optics, 2001, 73, 239-243.	1.1	97
59	High performance mixed matrix membranes (MMMs) composed of ZIF-94 filler and 6FDA-DAM polymer. Journal of Membrane Science, 2018, 550, 198-207.	4.1	95
60	Longitudinal and transverse coupling in infrared gold nanoantenna arrays: long range versus short range interaction regimes. Optics Express, 2011, 19, 15047.	1.7	94
61	Nanoscale-resolved chemical identification of thin organic films using infrared near-field spectroscopy and standard Fourier transform infrared references. Applied Physics Letters, 2015, 106, .	1.5	92
62	Amplitude- and Phase-Resolved Near-Field Mapping of Infrared Antenna Modes by Transmission-Mode Scattering-Type Near-Field Microscopy. Journal of Physical Chemistry C, 2010, 114, 7341-7345.	1.5	91
63	Recovery of Permittivity and Depth from Near-Field Data as a Step toward Infrared Nanotomography. ACS Nano, 2014, 8, 6911-6921.	7.3	91
64	Real-space observation of vibrational strong coupling between propagating phonon polaritons and organic molecules. Nature Photonics, 2021, 15, 197-202.	15.6	90
65	Terahertz Nanofocusing with Cantilevered Terahertz-Resonant Antenna Tips. Nano Letters, 2017, 17, 6526-6533.	4.5	84
66	Subsurface chemical nanoidentification by nano-FTIR spectroscopy. Nature Communications, 2020, 11, 3359.	5.8	84
67	Synthetic optical holography for rapid nanoimaging. Nature Communications, 2014, 5, 3499.	5.8	83
68	Simultaneous IR Material Recognition and Conductivity Mapping by Nanoscale Nearâ€Field Microscopy. Advanced Materials, 2007, 19, 2209-2212.	11.1	82
69	Infrared Imaging of Single Nanoparticles via Strong Field Enhancement in a Scanning Nanogap. Physical Review Letters, 2006, 97, 060801.	2.9	81
70	Mapping the near fields of plasmonic nanoantennas by scatteringâ€ŧype scanning nearâ€field optical microscopy. Laser and Photonics Reviews, 2015, 9, 637-649.	4.4	81
71	Focusing of surface phonon polaritons. Applied Physics Letters, 2008, 92, .	1.5	80
72	Efficient Coupling of Light to Graphene Plasmons by Compressing Surface Polaritons with Tapered Bulk Materials. Nano Letters, 2014, 14, 2896-2901.	4.5	80

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73	Near-field photocurrent nanoscopy on bare and encapsulated graphene. Nature Communications, 2016, 7, 10783.	5.8	80
74	Nanomechanical Resonance Tuning and Phase Effects in Optical Near-Field Interaction. Nano Letters, 2004, 4, 1669-1672.	4.5	79
75	Importance of Plasmonic Scattering for an Optimal Enhancement of Vibrational Absorption in SEIRA with Linear Metallic Antennas. Journal of Physical Chemistry C, 2015, 119, 26652-26662.	1.5	75
76	Nano-imaging of intersubband transitions in van der Waals quantum wells. Nature Nanotechnology, 2018, 13, 1035-1041.	15.6	75
77	Probes for Ultrasensitive THz Nanoscopy. ACS Photonics, 2019, 6, 1279-1288.	3.2	75
78	Nanoscale Infrared Absorption Spectroscopy of Individual Nanoparticles Enabled by Scattering-Type Near-Field Microscopy. ACS Nano, 2011, 5, 6494-6499.	7.3	73
79	Phase-resolved terahertz self-detection near-field microscopy. Optics Express, 2018, 26, 18423.	1.7	70
80	All-electronic terahertz nanoscopy. Optica, 2018, 5, 159.	4.8	70
81	Collective near-field coupling and nonlocal phenomena in infrared-phononic metasurfaces for nano-light canalization. Nature Communications, 2020, 11, 3663.	5.8	70
82	Understanding the Image Contrast of Material Boundaries in IR Nanoscopy Reaching 5 nm Spatial Resolution. ACS Photonics, 2018, 5, 3372-3378.	3.2	69
83	Hyperspectral time-domain terahertz nano-imaging. Optics Express, 2019, 27, 24231.	1.7	69
84	Real-Space Mapping of the Chiral Near-Field Distributions in Spiral Antennas and Planar Metasurfaces. Nano Letters, 2016, 16, 663-670.	4.5	64
85	Enhanced resolution in subsurface near-field optical microscopy. Optics Express, 2012, 20, 593.	1.7	63
86	Electrical 2Ï€ phase control of infrared light in a 350-nm footprint using graphene plasmons. Nature Photonics, 2017, 11, 421-424.	15.6	63
87	Plasmons in Cylindrical 2D Materials as a Platform for Nanophotonic Circuits. ACS Photonics, 2015, 2, 280-286.	3.2	58
88	THz Near-Field Imaging of Extreme Subwavelength Metal Structures. ACS Photonics, 2020, 7, 687-694.	3.2	58
89	Nanoscale Resolved Infrared Probing of Crystal Structure and of Plasmonâ~ Phonon Coupling. Nano Letters, 2006, 6, 774-778.	4.5	57
90	Infrared spectroscopic near-field mapping of single nanotransistors. Nanotechnology, 2010, 21, 235702.	1.3	56

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91	Launching of hyperbolic phonon-polaritons in h-BN slabs by resonant metal plasmonic antennas. Nature Communications, 2019, 10, 3242.	5.8	56
92	Near-Field Imaging of Phased Array Metasurfaces. Nano Letters, 2015, 15, 3851-3858.	4.5	55
93	Near-field amplitude and phase recovery using phase-shifting interferometry. Optics Express, 2008, 16, 494.	1.7	54
94	Correlative infrared–electron nanoscopy reveals the local structure–conductivity relationship in zinc oxide nanowires. Nature Communications, 2012, 3, 1131.	5.8	53
95	Plasmonic antenna coupling to hyperbolic phonon-polaritons for sensitive and fast mid-infrared photodetection with graphene. Nature Communications, 2020, 11, 4872.	5.8	53
96	Visualizing the near-field coupling and interference of bonding and anti-bonding modes in infrared dimer nanoantennas. Optics Express, 2013, 21, 1270.	1.7	52
97	Deeply subwavelength phonon-polaritonic crystal made of a van der Waals material. Nature Communications, 2019, 10, 42.	5.8	51
98	Material-Specific Infrared Recognition of Single Sub-10 nm Particles by Substrate-Enhanced Scattering-Type Near-Field Microscopy. Nano Letters, 2007, 7, 3177-3181.	4.5	50
99	Local excitation and interference of surface phonon polaritons studied by nearâ€field infrared microscopy. Journal of Microscopy, 2008, 229, 389-395.	0.8	50
100	Dual-Scattering Near-Field Microscope for Correlative Nanoimaging of SERS and Electromagnetic Hotspots. Nano Letters, 2017, 17, 2667-2673.	4.5	49
101	Planar refraction and lensing of highly confined polaritons in anisotropic media. Nature Communications, 2021, 12, 4325.	5.8	48
102	Nanofocusing of Hyperbolic Phonon Polaritons in a Tapered Boron Nitride Slab. ACS Photonics, 2016, 3, 924-929.	3.2	44
103	High performance crystalline nanocellulose using an ancestral endoglucanase. Communications Materials, 2020, 1, .	2.9	44
104	Towards phonon photonics: scattering-type near-field optical microscopy reveals phonon-enhanced near-field interaction. Ultramicroscopy, 2004, 100, 421-427.	0.8	43
105	Acoustic Graphene Plasmon Nanoresonators for Field-Enhanced Infrared Molecular Spectroscopy. ACS Photonics, 2017, 4, 3089-3097.	3.2	43
106	Intrinsic Plasmon–Phonon Interactions in Highly Doped Graphene: AÂNear-Field Imaging Study. Nano Letters, 2017, 17, 5908-5913.	4.5	42
107	Temperatureâ€depending Raman lineâ€shift of silicon carbide. Journal of Raman Spectroscopy, 2009, 40, 1867-1874.	1.2	39
108	Strong coupling between phonon-polaritons and plasmonic nanorods. Optics Express, 2016, 24, 25528.	1.7	39

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109	Nanoscale residual stress-field mapping‰around nanoindents in SiC‰by IR s-SNOM and confocal Raman microscopy. Optics Express, 2009, 17, 22351.	1.7	36
110	Focusing of in-plane hyperbolic polaritons in van der Waals crystals with tailored infrared nanoantennas. Science Advances, 2021, 7, eabj0127.	4.7	36
111	Surface-Enhanced Molecular Electron Energy Loss Spectroscopy. ACS Nano, 2018, 12, 4775-4786.	7.3	35
112	Resonant light scattering by near-field-induced phonon polaritons. Physical Review B, 2005, 71, .	1.1	34
113	Quantitative confocal phase imaging by synthetic optical holography. Optics Express, 2014, 22, 15267.	1.7	34
114	Extremely Confined Acoustic Phonon Polaritons in Monolayer-hBN/Metal Heterostructures for Strong Light–Matter Interactions. ACS Photonics, 2020, 7, 2610-2617.	3.2	33
115	Real-space nanoimaging of THz polaritons in the topological insulator Bi2Se3. Nature Communications, 2022, 13, 1374.	5.8	33
116	Whispering gallery mode resonators with J-aggregates. Optics Express, 2011, 19, 22280.	1.7	32
117	Phase in Nanooptics. ACS Nano, 2012, 6, 8-12.	7.3	32
118	Visualizing the Optical Interaction Tensor of a Gold Nanoparticle Pair. Nano Letters, 2010, 10, 652-656.	4.5	31
119	Graphene Plasmon Reflection by Corrugations. ACS Photonics, 2017, 4, 3081-3088.	3.2	30
120	Terahertz Nanoimaging and Nanospectroscopy of Chalcogenide Phase-Change Materials. ACS Photonics, 2020, 7, 3499-3506.	3.2	29
121	Nanoscale Guiding of Infrared Light with Hyperbolic Volume and Surface Polaritons in van der Waals Material Ribbons. Advanced Materials, 2020, 32, e1906530.	11.1	29
122	Electrospinning of peptide and protein fibres: approaching the molecular scale. Faraday Discussions, 2013, 166, 209.	1.6	28
123	Substrate Matters: Surface-Polariton Enhanced Infrared Nanospectroscopy of Molecular Vibrations. Nano Letters, 2019, 19, 8066-8073.	4.5	28
124	Microcavity phonon polaritons from the weak to the ultrastrong phonon–photon coupling regime. Nature Communications, 2021, 12, 6206.	5.8	27
125	Electrical detection of hyperbolic phonon-polaritons in heterostructures of graphene and boron nitride. Npj 2D Materials and Applications, 2017, 1, .	3.9	25
126	Nanoscale optical tomography using volume-scanning near-field microscopy. Applied Physics Letters, 2009, 95, 121108.	1.5	24

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127	High-power femtosecond mid-IR sources for s-SNOM applications. Journal of Optics (United Kingdom), 2014, 16, 094003.	1.0	24
128	Enhanced Light–Matter Interaction in <sup>10</sup> B Monoisotopic Boron Nitride Infrared Nanoresonators. Advanced Optical Materials, 2021, 9, 2001958.	3.6	24
129	An alternative approach for the incorporation of cellulose nanocrystals in flexible polyurethane foams based on renewably sourced polyols. Industrial Crops and Products, 2017, 95, 564-573.	2.5	23
130	Vibrational electron energy loss spectroscopy in truncated dielectric slabs. Physical Review B, 2018, 98, .	1.1	23
131	Tuning the polarization state of light via time retardation with a microstructured surface. Physical Review B, 2013, 88, .	1.1	22
132	Nanoscale Conductivity Contrast by Scattering-Type Near-Field Optical Microscopy in the Visible, Infrared and THz Domains. Journal of Infrared, Millimeter, and Terahertz Waves, 2009, 30, 1255.	1.2	20
133	Contrast and scattering efficiency of scattering-type near-field optical probes. Applied Physics Letters, 2004, 85, 4466.	1.5	18
134	High-fidelity nano-FTIR spectroscopy by on-pixel normalization of signal harmonics. Nanophotonics, 2022, 11, 377-390.	2.9	18
135	Phonon-Enhanced Mid-Infrared CO <sub>2</sub> Gas Sensing Using Boron Nitride Nanoresonators. ACS Photonics, 2022, 9, 34-42.	3.2	17
136	Far-field disentanglement of modes in hybrid plasmonic-photonic crystals by fluorescence nano-reporters. Nanophotonics, 2013, 2, 173-185.	2.9	14
137	Synthetic optical holography with nonlinear-phase reference. Optics Express, 2014, 22, 26621.	1.7	14
138	Magnitude and phase-resolved infrared vibrational nanospectroscopy with a swept quantum cascade laser. Optics Express, 2015, 23, 13358.	1.7	14
139	Cross-Sectional Chemical Nanoimaging of Composite Polymer Nanoparticles by Infrared Nanospectroscopy. Macromolecules, 2021, 54, 995-1005.	2.2	14
140	Combined Tip-Enhanced Raman Spectroscopy and Scattering-Type Scanning Near-Field Optical Microscopy. Journal of Physical Chemistry C, 2018, 122, 16274-16280.	1.5	13
141	Rapid Infrared Spectroscopic Nanoimaging with nano-FTIR Holography. ACS Photonics, 2020, 7, 2878-2885.	3.2	13
142	Amplitude- and Phase-Resolved Infrared Nanoimaging and Nanospectroscopy of Polaritons in a Liquid Environment. Nano Letters, 2021, 21, 1360-1367.	4.5	13
143	Hyperspectral Nanoimaging of van der Waals Polaritonic Crystals. Nano Letters, 2021, 21, 7109-7115.	4.5	13
144	Active and Passive Tuning of Ultranarrow Resonances in Polaritonic Nanoantennas. Advanced Materials, 2022, 34, e2104954.	11.1	13

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145	Nanoscale Chemical Mapping by Local Infrared Spectroscopy (nano-FTIR). Microscopy Today, 2012, 20, 28-31.	0.2	12
146	Nanofocusing of acoustic graphene plasmon polaritons for enhancing mid-infrared molecular fingerprints. Nanophotonics, 2020, 9, 2089-2095.	2.9	12
147	Rapid simulations of hyperspectral near-field images of three-dimensional heterogeneous surfaces. Optics Express, 2021, 29, 39648.	1.7	12
148	Rapid simulations of hyperspectral near-field images of three-dimensional heterogeneous surfaces – part II. Optics Express, 2022, 30, 11228.	1.7	12
149	Infrared phononic nanoantennas: Localized surface phonon polaritons in SiC disks. Science Bulletin, 2010, 55, 2625-2628.	1.7	11
150	Plasmons in graphene on uniaxial substrates. Applied Physics Letters, 2014, 104, 011111.	1.5	11
151	Polarization-Resolved Near-Field Characterization of Nanoscale Infrared Modes in Transmission Lines Fabricated by Gallium and Helium Ion Beam Milling. ACS Photonics, 2014, 1, 604-611.	3.2	11
152	Localized Surface Plasmons: Basics and Applications in Field-Enhanced Spectroscopy. Springer Series in Optical Sciences, 2012, , 151-176.	0.5	9
153	Probing and steering bulk and surface phonon polaritons in uniaxial materials using fast electrons: Hexagonal boron nitride. Physical Review B, 2020, 102, .	1.1	9
154	Transient vibration imaging with time-resolved synthetic holographic confocal microscopy. Optics Express, 2018, 26, 26688.	1.7	8
155	Tailoring Photoluminescence by Strain-Engineering in Layered Perovskite Flakes. Nano Letters, 2022, 22, 4153-4160.	4.5	8
156	Coupling mid-infrared light from a photonic crystal waveguide to metallic transmission lines. Applied Physics Letters, 2014, 104, .	1.5	6
157	Harnessing a Quantum Design Approach for Making Low-Loss Superlenses. Nano Letters, 2016, 16, 1609-1613.	4.5	6
158	Propagation and nanofocusing of infrared surface plasmons on tapered transmission lines: Influence of the substrate. Optics Communications, 2012, 285, 3378-3382.	1.0	4
159	What momentum mismatch?. Nature Nanotechnology, 2019, 14, 308-309.	15.6	4
160	Solvent-structured PEDOT:PSS surfaces: Fabrication strategies and nanoscale properties. Polymer, 2022, 246, 124723.	1.8	4
161	Plasmonic Metasurface Resonators to Enhance Terahertz Magnetic Fields for Highâ€Frequency Electron Paramagnetic Resonance. Small Methods, 2021, 5, e2100376.	4.6	3

162 Coloured heat. Nature Photonics, 2009, 3, 609-610.

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163	Local Field Enhancement of Mid-Infrared Light in an Integrated Photonic-Plasmonic Structure. Journal of Lightwave Technology, 2015, 33, 368-371.	2.7	2
164	Scattering-type Near-field Microscopy: From Nanoscale Infrared Material Recognition to Superlens Studies. , 2007, , .		1
165	Infrared and terahertz nanoscopy. , 2010, , .		1
166	Quantitative, nanoscale free-carrier concentration mapping using terahertz near-field nanoscopy. , 2011, , .		1
167	Infrared spectroscopy on the nanometer-scale. Microscopy and Microanalysis, 2003, 9, 1066-1067.	0.2	0
168	Local Fields of Optical Antenna Structures. , 2007, , .		0
169	Nanoscale infrared&THz mapping of conductivity. , 2008, , .		0
170	THz scattering-type near-field microscopy of semiconductor conductivity and mobility. , 2009, , .		0
171	Infrared and terahertz nanoscopy for dielectric imaging and near-field mapping of antennas and transmission-lines. , 2011, , .		0
172	Nanoscale infrared spectroscopy with a thermal source: Nano-FTIR. , 2011, , .		0
173	Mid-infrared nanophotonics based on antennas and transmission lines. , 2011, , .		0
174	Enhancement effects in plasmonic nanocavities with quantum emitters. , 2012, , .		0
175	Infrared nanoscopy and nanospectroscopy - From nanoscale chemical identification of polymers to real-space imaging of graphene plasmons. , 2013, , .		0
176	Real-space mapping of chiral antennas and metasurfaces. , 2016, , .		0
177	Synthetic holographic phase imaging in confocal microscopy and applications. , 2016, , .		0
178	Plasmon Polariton Field Mapping by Elastic Light Scattering from a Tip. World Scientific Series in Nanoscience and Nanotechnology, 2017, , 409-437.	0.1	0
179	Phonon based high quality factor split ring resonators made from boron nitride. , 2017, , .		0
180	Addressing Vibrational Excitations in Van der Waals Materials and Molecular Layers Within Electron Energy Loss Spectroscopy. Microscopy and Microanalysis, 2018, 24, 408-409.	0.2	0

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181	Near-field characterization of photonic nanostructures -from hot spot imaging to superlens studies. , 2007, , .		0
182	Extraordinary optical properties of SiC membranes: superlensing, sub-surface imaging, and enhanced transmission through hole arrays in mid-IR. , 2007, , .		0
183	Nonlinear Reference Phases in Synthetic Optical Holography. , 2014, , .		0
184	Ohmic Loss Produces Chiral Dichroism in Plasmonic Metasurfaces: First Experimental Demonstration. , 2015, , .		0
185	Dynamic surface profiling with synthetic holographic confocal microscopy. , 2016, , .		0
186	Computational refocusing in phase-resolved confocal microscopy. , 2016, , .		0
187	Sub-wavelength near field imaging techniques at terahertz frequencies. , 2018, , .		0