

# Qing Dai

## List of Publications by Year in descending order

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138  
papers

4,298  
citations

109321

35  
h-index

138484

58  
g-index

139  
all docs

139  
docs citations

139  
times ranked

5669  
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards optimal single-photon sources from polarized microcavities. <i>Nature Photonics</i> , 2019, 13, 770-775.	31.4	290
2	Far-field nanoscale infrared spectroscopy of vibrational fingerprints of molecules with graphene plasmons. <i>Nature Communications</i> , 2016, 7, 12334.	12.8	237
3	On-Demand Semiconductor Source of Entangled Photons Which Simultaneously Has High Fidelity, Efficiency, and Indistinguishability. <i>Physical Review Letters</i> , 2019, 122, 113602.	7.8	219
4	Modern Scattering-Type Scanning Near-Field Optical Microscopy for Advanced Material Research. <i>Advanced Materials</i> , 2019, 31, e1804774.	21.0	205
5	Gas identification with graphene plasmons. <i>Nature Communications</i> , 2019, 10, 1131.	12.8	154
6	Nanomaterial-Based Plasmon-Enhanced Infrared Spectroscopy. <i>Advanced Materials</i> , 2018, 30, e1704896.	21.0	124
7	Ghost hyperbolic surface polaritons in bulk anisotropic crystals. <i>Nature</i> , 2021, 596, 362-366.	27.8	102
8	Broadly tunable graphene plasmons using an ion-gel top gate with low control voltage. <i>Nanoscale</i> , 2015, 7, 19493-19500.	5.6	90
9	Tuning the Interfacial Mechanical Behaviors of Monolayer Graphene/PMMA Nanocomposites. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 22554-22562.	8.0	84
10	Direct observation of highly confined phonon polaritons in suspended monolayer hexagonal boron nitride. <i>Nature Materials</i> , 2021, 20, 43-48.	27.5	84
11	Terahertz Nanoimaging of Graphene. <i>ACS Photonics</i> , 2018, 5, 2645-2651.	6.6	78
12	Far-Field Spectroscopy and Near-Field Optical Imaging of Coupled Plasmon-Phonon Polaritons in 2D van der Waals Heterostructures. <i>Advanced Materials</i> , 2016, 28, 2931-2938.	21.0	77
13	Probing optical anisotropy of nanometer-thin van der waals microcrystals by near-field imaging. <i>Nature Communications</i> , 2017, 8, 1471.	12.8	74
14	Graphene-Based Ultrathin Flat Lenses. <i>ACS Photonics</i> , 2015, 2, 200-207.	6.6	70
15	Carbon Nanotube Based High Resolution Holograms. <i>Advanced Materials</i> , 2012, 24, OP331-6.	21.0	65
16	THz Near-Field Imaging of Extreme Subwavelength Metal Structures. <i>ACS Photonics</i> , 2020, 7, 687-694.	6.6	58
17	High-Performance Ge Quantum Dot Decorated Graphene/Zinc-Oxide Heterostructure Infrared Photodetector. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 2452-2458.	8.0	57
18	Higher order Fano graphene metamaterials for nanoscale optical sensing. <i>Nanoscale</i> , 2017, 9, 14998-15004.	5.6	56

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19	Enhanced UV-Vis Detection of Perovskite Photodetector Arrays via Inorganic CsPbBr <sub>3</sub> Quantum Dot Down-Conversion Layer. <i>Advanced Optical Materials</i> , 2019, 7, 1801812.	7.3	55
20	Metamaterial high pass filter based on periodic wire arrays of multiwalled carbon nanotubes. <i>Applied Physics Letters</i> , 2010, 97, 163102.	3.3	53
21	Enhanced Detectivity and Suppressed Dark Current of Perovskite-InGaZnO Phototransistor via a PCBM Interlayer. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 44144-44151.	8.0	50
22	Band Structure Perfection and Superconductivity in Type-II Dirac Semimetal Ir <sub>1-x</sub> Pt <sub>x</sub> Te <sub>2</sub> . <i>Advanced Materials</i> , 2018, 30, e1801556.	21.0	47
23	Ultrafast Field-Emission Electron Sources Based on Nanomaterials. <i>Advanced Materials</i> , 2019, 31, e1805845.	21.0	46
24	Thermoplasmonics in Solar Energy Conversion: Materials, Nanostructured Designs, and Applications. <i>Advanced Materials</i> , 2022, 34, e2107351.	21.0	45
25	Efficient All-Optical Plasmonic Modulators with Atomically Thin Van Der Waals Heterostructures. <i>Advanced Materials</i> , 2020, 32, e1907105.	21.0	44
26	Phase-Change Hyperbolic Heterostructures for Nanopolaritonics: A Case Study of hBN/VO <sub>2</sub> . <i>Advanced Materials</i> , 2019, 31, e1900251.	21.0	43
27	High current field emission from individual non-linear resistor ballasted carbon nanotube cluster array. <i>Carbon</i> , 2015, 89, 1-7.	10.3	39
28	Graphene Actively Mode-Locked Lasers. <i>Advanced Functional Materials</i> , 2018, 28, 1801539.	14.9	39
29	Enhanced Field Emission from a Carbon Nanotube Array Coated with a Hexagonal Boron Nitride Thin Film. <i>Small</i> , 2015, 11, 3710-3716.	10.0	38
30	Solution-processed photodetectors based on organic-inorganic hybrid perovskite and nanocrystalline graphite. <i>Nanotechnology</i> , 2016, 27, 175201.	2.6	38
31	Flexible and Electrically Tunable Plasmons in Graphene-Mica Heterostructures. <i>Advanced Science</i> , 2018, 5, 1800175.	11.2	38
32	Carbon Nanotubes as an Ultrafast Emitter with a Narrow Energy Spread at Optical Frequency. <i>Advanced Materials</i> , 2017, 29, 1701580.	21.0	37
33	Observations of 3 nm Silk Nanofibrils Exfoliated from Natural Silkworm Silk Fibers. , 2020, 2, 153-160.		37
34	Plasmonic Band Gaps and Waveguide Effects in Carbon Nanotube Arrays Based Metamaterials. <i>ACS Nano</i> , 2011, 5, 9138-9143.	14.6	36
35	Study of graphene plasmons in graphene-MoS <sub>2</sub> heterostructures for optoelectronic integrated devices. <i>Nanoscale</i> , 2017, 9, 208-215.	5.6	36
36	PHOTONIC CRYSTALS & METAMATERIAL FILTERS BASED ON 2D ARRAYS OF SILICON NANOPILLARS. <i>Progress in Electromagnetics Research</i> , 2011, 113, 179-194.	4.4	35

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37	NiFe Nanoalloys Derived from Layered Double Hydroxides for Photothermal Synergistic Reforming of CH <sub>4</sub> with CO <sub>2</sub> . <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	35
38	Graphene actively Q-switched lasers. <i>2D Materials</i> , 2017, 4, 025095.	4.4	34
39	Laser Interference Lithography for the Nanofabrication of Stimuli-Responsive Bragg Stacks. <i>Advanced Functional Materials</i> , 2018, 28, 1702715.	14.9	34
40	Electrical Control of Interband Resonant Nonlinear Optics in Monolayer MoS <sub>2</sub> . <i>ACS Nano</i> , 2020, 14, 8442-8448.	14.6	34
41	Tunable Planar Focusing Based on Hyperbolic Phonon Polaritons in $\text{MoO}_3$ . <i>Advanced Materials</i> , 2022, 34, e2105590.	21.0	32
42	Active control of micrometer plasmon propagation in suspended graphene. <i>Nature Communications</i> , 2022, 13, 1465.	12.8	31
43	Graphene plasmon propagation on corrugated silicon substrates. <i>Optics Letters</i> , 2015, 40, 1.	3.3	29
44	Rigorous numerical modeling of scattering-type scanning near-field optical microscopy and spectroscopy. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	29
45	Can Nanotubes Make a Lens Array?. <i>Advanced Materials</i> , 2012, 24, OP170-3.	21.0	28
46	Photon- $\epsilon$ Pair Generation with a 100 nm Thick Carbon Nanotube Film. <i>Advanced Materials</i> , 2017, 29, 1605978.	21.0	28
47	Tunable Electronic Transport Properties of 2D Layered Double Hydroxide Crystalline Microsheets with Varied Chemical Compositions. <i>Small</i> , 2016, 12, 4471-4476.	10.0	27
48	Tunable Modal Birefringence in a Low-Loss Van Der Waals Waveguide. <i>Advanced Materials</i> , 2019, 31, e1807788.	21.0	27
49	Cylindrical Fresnel lenses based on carbon nanotube forests. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	26
50	Ultrasensitive Poly(boric acid) Hydrogel-Coated Quartz Crystal Microbalance Sensor by Using UV Pressing-Assisted Polymerization for Saliva Glucose Monitoring. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 34190-34197.	8.0	26
51	Plasmonic Gas Sensing with Graphene Nanoribbons. <i>Physical Review Applied</i> , 2020, 13, .	3.8	25
52	Photo-induced terahertz near-field dynamics of graphene/InAs heterostructures. <i>Optics Express</i> , 2019, 27, 13611.	3.4	25
53	High performance boronic acid-containing hydrogel for biocompatible continuous glucose monitoring. <i>RSC Advances</i> , 2017, 7, 41384-41390.	3.6	24
54	High-efficiency modulation of coupling between different polaritons in an in-plane graphene/hexagonal boron nitride heterostructure. <i>Nanoscale</i> , 2019, 11, 2703-2709.	5.6	24

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55	Four-dimensional vibrational spectroscopy for nanoscale mapping of phonon dispersion in BN nanotubes. <i>Nature Communications</i> , 2021, 12, 1179.	12.8	24
56	Enhanced reflection from arrays of silicon based inverted nanocones. <i>Applied Physics Letters</i> , 2011, 99, 133105.	3.3	23
57	Enhanced reflection from inverse tapered nanocone arrays. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	23
58	Electrically Switchable Diffraction Grating Using a Hybrid Liquid Crystal and Carbon Nanotube-Based Nanophotonic Device. <i>Advanced Optical Materials</i> , 2013, 1, 368-373.	7.3	22
59	Carbon nanotube biconvex microcavities. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	22
60	Perfect-absorption graphene metamaterials for surface-enhanced molecular fingerprint spectroscopy. <i>Nanotechnology</i> , 2018, 29, 184004.	2.6	22
61	Nanoimaging and Nanospectroscopy of Polaritons with Time Resolved sNOM. <i>Advanced Optical Materials</i> , 2020, 8, 1901042.	7.3	22
62	Electrically reconfigurable nanophotonic hybrid grating lens array. <i>Applied Physics Letters</i> , 2010, 96, 233108.	3.3	21
63	Electro-optic characteristics of a transparent nanophotonic device based on carbon nanotubes and liquid crystals. <i>Applied Optics</i> , 2010, 49, 2099.	2.1	21
64	Transparent liquid-crystal-based microlens array using vertically aligned carbon nanofiber electrodes on quartz substrates. <i>Nanotechnology</i> , 2011, 22, 115201.	2.6	21
65	Photo-modulated thin film transistor based on dynamic charge transfer within quantum-dots-InGaZnO interface. <i>Applied Physics Letters</i> , 2014, 104, 113501.	3.3	21
66	Efficient photo-thermionic emission from carbon nanotube arrays. <i>Carbon</i> , 2016, 96, 641-646.	10.3	21
67	Ultrasensitive Mid-Infrared Biosensing in Aqueous Solutions with Graphene Plasmons. <i>Advanced Materials</i> , 2022, 34, e21110525.	21.0	20
68	Insulating SiO <sub>2</sub> under Centimeter-Scale, Single-Crystal Graphene Enables Electronic-Device Fabrication. <i>Nano Letters</i> , 2020, 20, 8584-8591.	9.1	19
69	Nanophotonic Three-Dimensional Microscope. <i>Nano Letters</i> , 2011, 11, 2770-2773.	9.1	18
70	Ultrasmall Microlens Array Based on Vertically Aligned Carbon Nanofibers. <i>Small</i> , 2012, 8, 2501-2504.	10.0	18
71	Graphene nanomesh photodetector with effective charge tunnelling from quantum dots. <i>Nanoscale</i> , 2015, 7, 4242-4249.	5.6	18
72	High Efficiency Light-Emitting Transistor with Vertical Metal-Oxide Heterostructure. <i>Small</i> , 2018, 14, e1800265.	10.0	17

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73	Strong and tunable interlayer coupling of infrared-active phonons to excitons in van der Waals heterostructures. <i>Physical Review B</i> , 2019, 99, .	3.2	17
74	SnO <sub>2</sub> -rGO nanocomposite as an efficient electron transport layer for stable perovskite solar cells on AZO substrate. <i>Nanotechnology</i> , 2019, 30, 075202.	2.6	17
75	A highly sensitive quartz crystal microbalance sensor modified with antifouling microgels for saliva glucose monitoring. <i>Nanoscale</i> , 2020, 12, 19317-19324.	5.6	17
76	Studying Plasmon Dispersion of MXene for Enhanced Electromagnetic Absorption. <i>Advanced Materials</i> , 2022, 34, e2201120.	21.0	17
77	Optically Unraveling the Edge Chirality-Dependent Band Structure and Plasmon Damping in Graphene Edges. <i>Advanced Materials</i> , 2018, 30, e1800367.	21.0	16
78	Extreme nonlinear strong-field photoemission from carbon nanotubes. <i>Nature Communications</i> , 2019, 10, 4891.	12.8	16
79	30 s Response Time of K <sup>+</sup> Ion-Selective Hydrogels Functionalized with 18-Crown-6 Ether Based on QCM Sensor. <i>Advanced Healthcare Materials</i> , 2018, 7, 1700873.	7.6	15
80	Reduced graphene oxide-induced crystallization of CuPc interfacial layer for high performance of perovskite photodetectors. <i>RSC Advances</i> , 2019, 9, 3800-3808.	3.6	14
81	Anisotropic acoustic phonon polariton-enhanced infrared spectroscopy for single molecule detection. <i>Nanoscale</i> , 2021, 13, 12720-12726.	5.6	14
82	Substrate effects on the near-field radiative heat transfer between bi-planar graphene/hBN heterostructures. <i>International Journal of Thermal Sciences</i> , 2022, 176, 107493.	4.9	14
83	Multiwall carbon nanotube microcavity arrays. <i>Journal of Applied Physics</i> , 2016, 119, 113105.	2.5	13
84	Large-scale Suspended Graphene Used as a Transparent Substrate for Infrared Spectroscopy. <i>Small</i> , 2017, 13, 1603812.	10.0	13
85	Quiver-quenched optical-field-emission from carbon nanotubes. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	13
86	Cross-linked enzyme-polymer conjugates with excellent stability and detergent-enhanced activity for efficient organophosphate degradation. <i>Bioresources and Bioprocessing</i> , 2018, 5, .	4.2	13
87	High detectivity ITO/organolead halide perovskite Schottky photodiodes. <i>Semiconductor Science and Technology</i> , 2019, 34, 074004.	2.0	13
88	Probing Polaritons in 2D Materials. <i>Advanced Optical Materials</i> , 2020, 8, 1901416.	7.3	13
89	Anomalous contrast in broadband THz near-field imaging of gold microstructures. <i>Optics Express</i> , 2021, 29, 15190.	3.4	12
90	Vertical CNT-Si Photodiode Array. <i>Nano Letters</i> , 2013, 13, 4131-4136.	9.1	11

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91	Tuning the peak position of subwavelength silica nanosphere broadband antireflection coatings. <i>Nanoscale Research Letters</i> , 2014, 9, 361.	5.7	11
92	Substrate Phonon-Mediated Plasmon Hybridization in Coplanar Graphene Nanostructures for Broadband Plasmonic Circuits. <i>Small</i> , 2015, 11, 591-596.	10.0	11
93	Pixelated Perovskite Photodiode on IGZO Thin Film Transistor Backplane for Low Dose Indirect X-Ray Detection. <i>IEEE Journal of the Electron Devices Society</i> , 2021, 9, 96-101.	2.1	11
94	Giant All-Optical Modulation of Second-Harmonic Generation Mediated by Dark Excitons. <i>ACS Photonics</i> , 2021, 8, 2320-2328.	6.6	11
95	Optical properties of graphene plasmons and their potential applications. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2015, 64, 106801.	0.5	11
96	A Multibeam Interference Model for Analyzing Complex Near-Field Images of Polaritons in 2D van der Waals Microstructures. <i>Advanced Functional Materials</i> , 2019, 29, 1904662.	14.9	10
97	The development of an antifouling interpenetrating polymer network hydrogel film for salivary glucose monitoring. <i>Nanoscale</i> , 2020, 12, 22787-22797.	5.6	10
98	Antifouling hydrogel film based on a sandwich array for salivary glucose monitoring. <i>RSC Advances</i> , 2021, 11, 27561-27569.	3.6	10
99	Field Emission Properties of Triode-Type Graphene Mesh Emitter Arrays. <i>IEEE Electron Device Letters</i> , 2014, 35, 786-788.	3.9	9
100	Plasmonic extinction of gated graphene nanoribbon array analyzed by a scaled uniform Fermi level. <i>Optics Letters</i> , 2014, 39, 1345.	3.3	9
101	Ultra-compact graphene plasmonic filter integrated in a waveguide. <i>Chinese Physics B</i> , 2018, 27, 094101.	1.4	9
102	Low-fouling CNT-PEG-hydrogel coated quartz crystal microbalance sensor for saliva glucose detection. <i>RSC Advances</i> , 2021, 11, 22556-22564.	3.6	9
103	Adaptive lenticular lens array using a hybrid liquid crystal-carbon nanotube nanophotonic device. <i>Optical Engineering</i> , 2011, 50, 054002.	1.0	8
104	Metamaterial filter for the near-visible spectrum. <i>Applied Physics Letters</i> , 2012, 101, 083106.	3.3	8
105	Towards graphene field emitters. <i>RSC Advances</i> , 2015, 5, 105111-105118.	3.6	8
106	Edge effect enhanced photo-thermionic emission from a carbon nanotubes array. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	8
107	Antenna-coupled vacuum channel nano-diode with high quantum efficiency. <i>Nanoscale</i> , 2020, 12, 1495-1499.	5.6	8
108	Hybrid hydrogel films with graphene oxide for continuous saliva-level monitoring. <i>Journal of Materials Chemistry C</i> , 2020, 8, 9655-9662.	5.5	8

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109	Ultrafast Electron Tunneling Devicesâ€”From Electricâ€Field Driven to Opticalâ€Field Driven. <i>Advanced Materials</i> , 2021, 33, e2101449.	21.0	8
110	Optimization of nanotube electrode geometry in a liquid crystal media from wavefront aberrations. <i>Applied Optics</i> , 2012, 51, 422.	1.8	7
111	Negative index photonic crystal lenses based on carbon nanotube arrays. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2012, 10, 499-505.	2.0	7
112	Structural Coloration in <i>Caloenas Nicobarica</i> Pigeons and Refractive Index Modulated Sensing. <i>Advanced Optical Materials</i> , 2018, 6, 1701218.	7.3	7
113	Graphene plasmon enhanced infrared spectroscopy. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2019, 68, 148103.	0.5	7
114	Engineering Interlayer Electronâ€Phonon Coupling in WS <sub>2</sub> /BN Heterostructures. <i>Nano Letters</i> , 2022, 22, 2725-2733.	9.1	7
115	Ultrafast Lasers: Graphene Actively Mode-Locked Lasers ( <i>Adv. Funct. Mater.</i> 28/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870194.	14.9	6
116	Photo-induced charge density distribution in metal surfaces and its extraction with apertureless near-field optics. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 24LT01.	1.8	6
117	Opticalâ€Fieldâ€Driven Electron Tunneling in Metalâ€Insulatorâ€Metal Nanojunction. <i>Advanced Science</i> , 2021, , 2101572.	11.2	6
118	Structural colouration in the Himalayan monal, hydrophobicity and refractive index modulated sensing. <i>Nanoscale</i> , 2020, 12, 21409-21419.	5.6	6
119	Solution-processed perovskite for direct X-ray detection. , 2016, , .		5
120	Nanocone-Shaped Carbon Nanotubes Field-Emitter Array Fabricated by Laser Ablation. <i>Nanomaterials</i> , 2021, 11, 3244.	4.1	5
121	Narrowâ€Band QDâ€Enhanced PIN Metalâ€Oxide Heterostructure Phototransistor with the Assistance of Printing Processes. <i>Advanced Optical Materials</i> , 2020, 8, 1901472.	7.3	4
122	Photovoltage-Coupled Dual-Gate InGaZnO Thin-Film Transistors Operated at the Subthreshold Region for Low-Power Photodetection. <i>ACS Applied Electronic Materials</i> , 2020, 2, 1745-1751.	4.3	4
123	FABRICATION OF CARBON NANOTUBES ON INTER-DIGITATED METAL ELECTRODE FOR SWITCHABLE NANOPHOTONIC DEVICES. <i>Progress in Electromagnetics Research</i> , 2012, 127, 65-77.	4.4	3
124	Polariton Spectroscopy: Nanoimaging and Nanospectroscopy of Polaritons with Time Resolved <i>sNOM</i> ( <i>Advanced Optical Materials</i> 5/2020). <i>Advanced Optical Materials</i> , 2020, 8, 2070019.	7.3	3
125	Saliva-based point-of-care testing techniques for COVID-19 detection. <i>Virologica Sinica</i> , 2022, 37, 472-476.	3.0	3
126	Carbon Nanotube Array Based Binary Gabor Zone Plate Lenses. <i>Scientific Reports</i> , 2017, 7, 15256.	3.3	2



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127	Few-layer hexagonal boron nitride as a shield of brittle materials for cryogenic s-SNOM exploration of phonon polaritons. Applied Physics Letters, 2022, 120, .	3.3	2
128	Carbon Nanotubes: Carbon Nanotube Based High Resolution Holograms (Adv. Mater. 44/2012). Advanced Materials, 2012, 24, OP356.	21.0	1
129	3D modelling of carbon nanotubes and liquid crystal based nano-phonic device. Proceedings of SPIE, 2010, , .	0.8	0
130	Modeling and characterization of tunable photonic crystal waveguides based on two-dimensional periodic arrays of silicon pillars. Proceedings of SPIE, 2010, , .	0.8	0
131	Optical waveguides and switches based on periodic arrays of carbon nanotubes. , 2011, , .		0
132	Liquid Crystals: Electrically Switchable Diffraction Grating Using a Hybrid Liquid Crystal and Carbon Nanotube-Based Nanophotonic Device (Advanced Optical Materials 5/2013). Advanced Optical Materials, 2013, 1, 367-367.	7.3	0
133	Enhanced field emission properties of carbon nanotubes by coating diamond-like carbon layer. , 2014, , .		0
134	Suppressed Hysteretic Field Emission from Polymer Encapsulated Silver Nanowires. IEEE Nanotechnology Magazine, 2016, , 1-1.	2.0	0
135	Electrical Driven Light Emitting From a Tunneling Junction With Negative Resistance Effect. IEEE Journal of the Electron Devices Society, 2017, 5, 271-274.	2.1	0
136	Polaritons in Nanomaterials. Advanced Optical Materials, 2020, 8, 1902104.	7.3	0
137	Anomalous Contrast in Broadband THz Near-Field Imaging of Gold Microstructures. , 2021, , .		0
138	High-resolution integral imaging of micron-sized objects. , 2020, , .		0