Xiaoxia Yang

List of Publications by Year
in descending order

40	2,094	257450 24	289244 40
papers	citations	h-index	g-index

41	41	41	3211
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Active control of micrometer plasmon propagation in suspended graphene. Nature Communications, 2022, 13, 1465.	12.8	31
2	Ultrasensitive Midâ€Infrared Biosensing in Aqueous Solutions with Graphene Plasmons. Advanced Materials, 2022, 34, e2110525.	21.0	20
3	Direct observation of highly confined phonon polaritons in suspended monolayer hexagonal boron nitride. Nature Materials, 2021, 20, 43-48.	27.5	84
4	Anisotropic acoustic phonon polariton-enhanced infrared spectroscopy for single molecule detection. Nanoscale, 2021, 13, 12720-12726.	5.6	14
5	Four-dimensional vibrational spectroscopy for nanoscale mapping of phonon dispersion in BN nanotubes. Nature Communications, 2021, 12, 1179.	12.8	24
6	Giant All-Optical Modulation of Second-Harmonic Generation Mediated by Dark Excitons. ACS Photonics, 2021, 8, 2320-2328.	6.6	11
7	Probing Polaritons in 2D Materials. Advanced Optical Materials, 2020, 8, 1901416.	7.3	13
8	Plasmonic Gas Sensing with Graphene Nanoribbons. Physical Review Applied, 2020, 13, .	3.8	25
9	Efficient Allâ€Optical Plasmonic Modulators with Atomically Thin Van Der Waals Heterostructures. Advanced Materials, 2020, 32, e1907105.	21.0	44
10	Towards optimal single-photon sources from polarized microcavities. Nature Photonics, 2019, 13, 770-775.	31.4	290
11	A Multibeam Interference Model for Analyzing Complex Nearâ€Field Images of Polaritons in 2D van der Waals Microstructures. Advanced Functional Materials, 2019, 29, 1904662.	14.9	10
12	High-efficiency modulation of coupling between different polaritons in an in-plane graphene/hexagonal boron nitride heterostructure. Nanoscale, 2019, 11, 2703-2709.	5.6	24
13	On-Demand Semiconductor Source of Entangled Photons Which Simultaneously Has High Fidelity, Efficiency, and Indistinguishability. Physical Review Letters, 2019, 122, 113602.	7.8	219
14	Gas identification with graphene plasmons. Nature Communications, 2019, 10, 1131.	12.8	154
15	Nanomaterialâ€Based Plasmonâ€Enhanced Infrared Spectroscopy. Advanced Materials, 2018, 30, e1704896.	21.0	124
16	30 s Response Time of K⁺ Ionâ€Selective Hydrogels Functionalized with 18â€Crownâ€6 Ether Based on QCM Sensor. Advanced Healthcare Materials, 2018, 7, 1700873.	7.6	15
17	Ultra-compact graphene plasmonic filter integrated in a waveguide. Chinese Physics B, 2018, 27, 094101.	1.4	9
18	Graphene Actively Modeâ€Locked Lasers. Advanced Functional Materials, 2018, 28, 1801539.	14.9	39

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19	Flexible and Electrically Tunable Plasmons in Grapheneâ€“Mica Heterostructures. Advanced Science, 2018, 5, 1800175.	11.2	38
20	Largeâ€Scale Suspended Graphene Used as a Transparent Substrate for Infrared Spectroscopy. Small, 2017, 13, 1603812.	10.0	13
21	Higher order Fano graphene metamaterials for nanoscale optical sensing. Nanoscale, 2017, 9, 14998-15004.	5.6	56
22	Probing optical anisotropy of nanometer-thin van der waals microcrystals by near-field imaging. Nature Communications, 2017, 8, 1471.	12.8	74
23	Study of graphene plasmons in grapheneâ€“MoS₂heterostructures for optoelectronic integrated devices. Nanoscale, 2017, 9, 208-215.	5.6	36
24	Farâ€Field Spectroscopy and Nearâ€Field Optical Imaging of Coupled Plasmonâ€“Phonon Polaritons in 2D van der Waals Heterostructures. Advanced Materials, 2016, 28, 2931-2938.	21.0	77
25	Tunable Electronic Transport Properties of 2D Layered Double Hydroxide Crystalline Microsheets with Varied Chemical Compositions. Small, 2016, 12, 4471-4476.	10.0	27
26	Far-field nanoscale infrared spectroscopy of vibrational fingerprints of molecules with graphene plasmons. Nature Communications, 2016, 7, 12334.	12.8	237
27	Enhanced Field Emission from a Carbon Nanotube Array Coated with a Hexagonal Boron Nitride Thin Film. Small, 2015, 11, 3710-3716.	10.0	38
28	High current field emission from individual non-linear resistor ballasted carbon nanotube cluster array. Carbon, 2015, 89, 1-7.	10.3	39
29	Broadly tunable graphene plasmons using an ion-gel top gate with low control voltage. Nanoscale, 2015, 7, 19493-19500.	5.6	90
30	Substrate Phononâ€Mediated Plasmon Hybridization in Coplanar Graphene Nanostructures for Broadband Plasmonic Circuits. Small, 2015, 11, 591-596.	10.0	11
31	Field Emission Properties of Triode-Type Graphene Mesh Emitter Arrays. IEEE Electron Device Letters, 2014, 35, 786-788.	3.9	9
32	Plasmonic extinction of gated graphene nanoribbon array analyzed by a scaled uniform Fermi level. Optics Letters, 2014, 39, 1345.	3.3	9
33	Photo-modulated thin film transistor based on dynamic charge transfer within quantum-dots-InGaZnO interface. Applied Physics Letters, 2014, 104, 113501.	3.3	21
34	Facile Synthesis of Largeâ€Area Ultrathin Hexagonal BN Films via Selfâ€Limiting Growth at the Molten B₂O₃ Surface. Small, 2013, 9, 1353-1358.	10.0	28
35	Controlled oxidative functionalization of monolayer graphene by water-vapor plasma etching. Carbon, 2012, 50, 3039-3044.	10.3	35
36	Wet-Chemistry-Assisted Nanotube-Substitution Reaction for High-Efficiency and Bulk-Quantity Synthesis of Boron- and Nitrogen-Codoped Single-Walled Carbon Nanotubes. Journal of the American Chemical Society, 2011, 133, 13216-13219.	13.7	39

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37	Synthesis of patterned carbon nanotube arrays for field emission using a two layer Sn/Ni catalyst in an ethanol flame. Diamond and Related Materials, 2009, 18, 1375-1380.	3.9	14
38	Numerical calculations of field enhancement and field amplification factors for a vertical carbon nanotube in parallel-plate geometry. Diamond and Related Materials, 2009, 18, 1381-1386.	3.9	20
39	Flame-synthesis of carbon nanotubes on silicon substrates and their field emission properties. Diamond and Related Materials, 2008, 17, 1015-1020.	3.9	7
40	Effect of adsorbates on field emission from flame-synthesized carbon nanotubes. Journal Physics D: Applied Physics, 2008, 41, 195401.	2.8	25