

# Xiaoxia Yang

## List of Publications by Year in descending order

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40  
papers

2,094  
citations

257450

24  
h-index

289244

40  
g-index

41  
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41  
docs citations

41  
times ranked

3211  
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	Gas identification with graphene plasmons. <i>Nature Communications</i> , 2019, 10, 1131.	12.8	154
5	Nanomaterial-Based Plasmon-Enhanced Infrared Spectroscopy. <i>Advanced Materials</i> , 2018, 30, e1704896.	21.0	124
6	Broadly tunable graphene plasmons using an ion-gel top gate with low control voltage. <i>Nanoscale</i> , 2015, 7, 19493-19500.	5.6	90
7	Direct observation of highly confined phonon polaritons in suspended monolayer hexagonal boron nitride. <i>Nature Materials</i> , 2021, 20, 43-48.	27.5	84
8	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
9	Probing optical anisotropy of nanometer-thin van der waals microcrystals by near-field imaging. <i>Nature Communications</i> , 2017, 8, 1471.	12.8	74
10	Higher order Fano graphene metamaterials for nanoscale optical sensing. <i>Nanoscale</i> , 2017, 9, 14998-15004.	5.6	56
11	Efficient All-Optical Plasmonic Modulators with Atomically Thin Van Der Waals Heterostructures. <i>Advanced Materials</i> , 2020, 32, e1907105.	21.0	44
12	Wet-Chemistry-Assisted Nanotube-Substitution Reaction for High-Efficiency and Bulk-Quantity Synthesis of Boron- and Nitrogen-Codoped Single-Walled Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2011, 133, 13216-13219.	13.7	39
13	High current field emission from individual non-linear resistor ballasted carbon nanotube cluster array. <i>Carbon</i> , 2015, 89, 1-7.	10.3	39
14	Graphene Actively Mode-Locked Lasers. <i>Advanced Functional Materials</i> , 2018, 28, 1801539.	14.9	39
15	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
16	Flexible and Electrically Tunable Plasmons in Graphene-Mica Heterostructures. <i>Advanced Science</i> , 2018, 5, 1800175.	11.2	38
17	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
18	Controlled oxidative functionalization of monolayer graphene by water-vapor plasma etching. <i>Carbon</i> , 2012, 50, 3039-3044.	10.3	35

#	ARTICLE	IF	CITATIONS
19	Active control of micrometer plasmon propagation in suspended graphene. <i>Nature Communications</i> , 2022, 13, 1465.	12.8	31
20	Facile Synthesis of Large-Area Ultrathin Hexagonal BN Films via Self-Limiting Growth at the Molten $B_2O_3$ Surface. <i>Small</i> , 2013, 9, 1353-1358.	10.0	28
21	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
22	Effect of adsorbates on field emission from flame-synthesized carbon nanotubes. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 195401.	2.8	25
23	Plasmonic Gas Sensing with Graphene Nanoribbons. <i>Physical Review Applied</i> , 2020, 13, .	3.8	25
24	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
25	Four-dimensional vibrational spectroscopy for nanoscale mapping of phonon dispersion in BN nanotubes. <i>Nature Communications</i> , 2021, 12, 1179.	12.8	24
26	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
27	Numerical calculations of field enhancement and field amplification factors for a vertical carbon nanotube in parallel-plate geometry. <i>Diamond and Related Materials</i> , 2009, 18, 1381-1386.	3.9	20
28	Ultrasensitive Mid-Infrared Biosensing in Aqueous Solutions with Graphene Plasmons. <i>Advanced Materials</i> , 2022, 34, e21110525.	21.0	20
29	30 s Response Time of $K^{+}$ Ion-Selective Hydrogels Functionalized with 18-Crown-6 Ether Based on QCM Sensor. <i>Advanced Healthcare Materials</i> , 2018, 7, 1700873.	7.6	15
30	Synthesis of patterned carbon nanotube arrays for field emission using a two layer Sn/Ni catalyst in an ethanol flame. <i>Diamond and Related Materials</i> , 2009, 18, 1375-1380.	3.9	14
31	Anisotropic acoustic phonon polariton-enhanced infrared spectroscopy for single molecule detection. <i>Nanoscale</i> , 2021, 13, 12720-12726.	5.6	14
32	Large-Scale Suspended Graphene Used as a Transparent Substrate for Infrared Spectroscopy. <i>Small</i> , 2017, 13, 1603812.	10.0	13
33	Probing Polaritons in 2D Materials. <i>Advanced Optical Materials</i> , 2020, 8, 1901416.	7.3	13
34	Substrate Phonon-Mediated Plasmon Hybridization in Coplanar Graphene Nanostructures for Broadband Plasmonic Circuits. <i>Small</i> , 2015, 11, 591-596.	10.0	11
35	Giant All-Optical Modulation of Second-Harmonic Generation Mediated by Dark Excitons. <i>ACS Photonics</i> , 2021, 8, 2320-2328.	6.6	11
36	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

#	ARTICLE	IF	CITATIONS
37	Field Emission Properties of Triode-Type Graphene Mesh Emitter Arrays. IEEE Electron Device Letters, 2014, 35, 786-788.	3.9	9
38	Plasmonic extinction of gated graphene nanoribbon array analyzed by a scaled uniform Fermi level. Optics Letters, 2014, 39, 1345.	3.3	9
39	Ultra-compact graphene plasmonic filter integrated in a waveguide. Chinese Physics B, 2018, 27, 094101.	1.4	9
40	Flame-synthesis of carbon nanotubes on silicon substrates and their field emission properties. Diamond and Related Materials, 2008, 17, 1015-1020.	3.9	7