

De-Bo Hu

List of Publications by Year in descending order

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33
papers

1,335
citations

393982

19
h-index

395343

33
g-index

34
all docs

34
docs citations

34
times ranked

1869
citing authors

#	ARTICLE	IF	CITATIONS
1	Far-field nanoscale infrared spectroscopy of vibrational fingerprints of molecules with graphene plasmons. <i>Nature Communications</i> , 2016, 7, 12334.	5.8	237
2	Modern Scattering-Type Scanning Near-Field Optical Microscopy for Advanced Material Research. <i>Advanced Materials</i> , 2019, 31, e1804774.	11.1	205
3	Ghost hyperbolic surface polaritons in bulk anisotropic crystals. <i>Nature</i> , 2021, 596, 362-366.	13.7	102
4	Broadly tunable graphene plasmons using an ion-gel top gate with low control voltage. <i>Nanoscale</i> , 2015, 7, 19493-19500.	2.8	90
5	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.	11.1	77
6	Probing optical anisotropy of nanometer-thin van der waals microcrystals by near-field imaging. <i>Nature Communications</i> , 2017, 8, 1471.	5.8	74
7	Simultaneous measurement of liquid level and surrounding refractive index using tilted fiber Bragg grating. <i>Sensors and Actuators A: Physical</i> , 2011, 170, 62-65.	2.0	53
8	Efficient All-Optical Plasmonic Modulators with Atomically Thin Van Der Waals Heterostructures. <i>Advanced Materials</i> , 2020, 32, e1907105.	11.1	44
9	Flexible and Electrically Tunable Plasmons in Graphene-Mica Heterostructures. <i>Advanced Science</i> , 2018, 5, 1800175.	5.6	38
10	Study of graphene plasmons in graphene-MoS ₂ heterostructures for optoelectronic integrated devices. <i>Nanoscale</i> , 2017, 9, 208-215.	2.8	36
11	Tunable Planar Focusing Based on Hyperbolic Phonon Polaritons in MoO_3 . <i>Advanced Materials</i> , 2022, 34, e2105590.	11.1	32
12	Active control of micrometer plasmon propagation in suspended graphene. <i>Nature Communications</i> , 2022, 13, 1465.	5.8	31
13	Tunable Modal Birefringence in a Low-Loss Van Der Waals Waveguide. <i>Advanced Materials</i> , 2019, 31, e1807788.	11.1	27
14	Hydraulic pressure sensor based on fiber Bragg grating. <i>Optical Engineering</i> , 2011, 50, 064401.	0.5	26
15	Ultrasensitive Poly(boric acid) Hydrogel-Coated Quartz Crystal Microbalance Sensor by Using UV Pressing-Assisted Polymerization for Saliva Glucose Monitoring. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 34190-34197.	4.0	26
16	High performance boronic acid-containing hydrogel for biocompatible continuous glucose monitoring. <i>RSC Advances</i> , 2017, 7, 41384-41390.	1.7	24
17	High-efficiency modulation of coupling between different polaritons in an in-plane graphene/hexagonal boron nitride heterostructure. <i>Nanoscale</i> , 2019, 11, 2703-2709.	2.8	24
18	Microdisplacement Sensor Based on Tilted Fiber Bragg Grating Transversal Load Effect. <i>IEEE Sensors Journal</i> , 2011, 11, 1776-1779.	2.4	23

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19	Nanoimaging and Nanospectroscopy of Polaritons with Time Resolved s-SNOM. <i>Advanced Optical Materials</i> , 2020, 8, 1901042.	3.6	22
20	Ultrasensitive Mid-Infrared Biosensing in Aqueous Solutions with Graphene Plasmons. <i>Advanced Materials</i> , 2022, 34, e2110525.	11.1	20
21	Refractive-Index-Enhanced Raman Spectroscopy and Absorptiometry of Ultrathin Film Overlaid on an Optical Waveguide. <i>Journal of Physical Chemistry C</i> , 2013, 117, 16175-16181.	1.5	19
22	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.	3.9	15
23	Large-Scale Suspended Graphene Used as a Transparent Substrate for Infrared Spectroscopy. <i>Small</i> , 2017, 13, 1603812.	5.2	13
24	Probing Polaritons in 2D Materials. <i>Advanced Optical Materials</i> , 2020, 8, 1901416.	3.6	13
25	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.	7.8	10
26	The development of an antifouling interpenetrating polymer network hydrogel film for salivary glucose monitoring. <i>Nanoscale</i> , 2020, 12, 22787-22797.	2.8	10
27	Antifouling hydrogel film based on a sandwich array for salivary glucose monitoring. <i>RSC Advances</i> , 2021, 11, 27561-27569.	1.7	10
28	Low-fouling CNT-PEG-hydrogel coated quartz crystal microbalance sensor for saliva glucose detection. <i>RSC Advances</i> , 2021, 11, 22556-22564.	1.7	9
29	Hybrid hydrogel films with graphene oxide for continuous saliva-level monitoring. <i>Journal of Materials Chemistry C</i> , 2020, 8, 9655-9662.	2.7	8
30	Resonant Mirror Enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2014, 118, 13099-13106.	1.5	7
31	Structural colouration in the Himalayan monal, hydrophobicity and refractive index modulated sensing. <i>Nanoscale</i> , 2020, 12, 21409-21419.	2.8	6
32	Few-layer hexagonal boron nitride as a shield of brittle materials for cryogenic s-SNOM exploration of phonon polaritons. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	2
33	Eigenmodes in a negative-refractive-index planar waveguide for high-sensitivity evanescent sensing and spectroscopic applications. <i>Proceedings of SPIE</i> , 2013, , .	0.8	1