Jiahua Duan

List of Publications by Year
in descending order

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32 papers	1,229 citations	516710 16 h-index	434195 31 g-index
32 all docs	32 docs citations	32 times ranked	1375 citing authors

#	Article	IF	Citations
1	Giant optical anisotropy in transition metal dichalcogenides for next-generation photonics. Nature Communications, 2021, 12, 854.	12.8	154
2	Broad spectral tuning of ultra-low-loss polaritons in a van der Waals crystal by intercalation. Nature Materials, 2020, 19, 964-968.	27.5	129
3	Twisted Nano-Optics: Manipulating Light at the Nanoscale with Twisted Phonon Polaritonic Slabs. Nano Letters, 2020, 20, 5323-5329.	9.1	126
4	Hydrothermal Self-assembly of Manganese Dioxide/Manganese Carbonate/Reduced Graphene Oxide Aerogel for Asymmetric Supercapacitors. Electrochimica Acta, 2015, 164, 154-162.	5.2	120
5	Infrared Permittivity of the Biaxial van der Waals Semiconductor Î±â€MoO₃ from Nearâ€•and Farâ€Field Correlative Studies. Advanced Materials, 2020, 32, e1908176.	21.0	99
6	Chemical switching of low-loss phonon polaritons in Î±-MoO3 by hydrogen intercalation. Nature Communications, 2020, 11, 2646.	12.8	54
7	Launching Phonon Polaritons by Natural Boron Nitride Wrinkles with Modifiable Dispersion by Dielectric Environments. Advanced Materials, 2017, 29, 1702494.	21.0	53
8	Enabling propagation of anisotropic polaritons along forbidden directions via a topological transition. Science Advances, 2021, 7, .	10.3	53
9	Manipulating polaritons at the extreme scale in van der Waals materials. Nature Reviews Physics, 2022, 4, 578-594.	26.6	51
10	Planar refraction and lensing of highly confined polaritons in anisotropic media. Nature Communications, 2021, 12, 4325.	12.8	48
11	Synthesis of MnO2/graphene/carbon nanotube nanostructured ternary composite for supercapacitor electrodes with high rate capability. Materials Chemistry and Physics, 2014, 147, 141-146.	4.0	44
12	Active Tuning of Highly Anisotropic Phonon Polaritons in Van der Waals Crystal Slabs by Gated Graphene. ACS Photonics, 2022, 9, 383-390.	6.6	37
13	Focusing of in-plane hyperbolic polaritons in van der Waals crystals with tailored infrared nanoantennas. Science Advances, 2021, 7, eabj0127.	10.3	36
14	Glassy carbon electrode modified with gold nanoparticles for ractopamine and metaproterenol sensing. Chemical Physics Letters, 2013, 574, 83-88.	2.6	29
15	Graphene and Nanostructured Mn₃O₄ Composites for Supercapacitors. Integrated Ferroelectrics, 2013, 144, 118-126.	0.7	21
16	Tunable Low Loss 1D Surface Plasmons in InAs Nanowires. Advanced Materials, 2018, 30, e1802551.	21.0	18
17	Anisotropy and Modal Hybridization in Infrared Nanophotonics Using Low-Symmetry Materials. ACS Photonics, 2022, 9, 1078-1095.	6.6	18
18	The fabrication of nanochain structure of gold nanoparticles and its application in ractopamine sensing. Talanta, 2013, 115, 992-998.	5.5	17

#	Article	IF	Citations
19	Simple synthesis method of reduced graphene oxide/gold nanoparticle and its application in surface-enhanced Raman scattering. Chemical Physics Letters, 2013, 582, 119-122.	2.6	16
20	Optically Unraveling the Edge Chiralityâ€Dependent Band Structure and Plasmon Damping in Graphene Edges. Advanced Materials, 2018, 30, e1800367.	21.0	16
21	Nanoimaging of Electronic Heterogeneity in Bi₂Se₃ and Sb₂Te₃ Nanocrystals. Advanced Electronic Materials, 2018, 4, 1700377.	5.1	16
22	Modulated photoluminescence of graphene quantum dots in the vicinity of an individual silver nano-octahedron. Physical Chemistry Chemical Physics, 2014, 16, 4504.	2.8	14
23	Active and Passive Tuning of Ultranarrow Resonances in Polaritonic Nanoantennas. Advanced Materials, 2022, 34, e2104954.	21.0	13
24	Nano-infrared imaging of localized plasmons in graphene nano-resonators. Chinese Physics B, 2017, 26, 117802.	1.4	9
25	Near-field optics on flatland: from noble metals to van der Waals materials. Advances in Physics: X, 2019, 4, 1593051.	4.1	8
26	Extracting the Infrared Permittivity of SiO2 Substrates Locally by Near-Field Imaging of Phonon Polaritons in a van der Waals Crystal. Nanomaterials, 2021, 11, 120.	4.1	7
27	Improving Luttinger-liquid plasmons in carbon nanotubes by chemical doping. Nanoscale, 2018, 10, 6288-6293.	5.6	6
28	Photorefractive photonic crystals fabricated with PMMA and 5CB based materials using three-dimensional colloidal crystals. Journal of Materials Chemistry C, 2013, 1, 5072.	5.5	5
29	Van der Waals Semiconductors: Infrared Permittivity of the Biaxial van der Waals Semiconductor Î±â€MoO₃ from Nearâ€and Farâ€Field Correlative Studies (Adv. Mater. 29/2020). Advanced Materials, 2020, 32, 2070220.	21.0	5
30	Anderson Localized Plasmon in Graphene with Random Tensileâ€Strain Distribution. Advanced Science, 2019, 6, 1801974.	11.2	4
31	Synthesis of Gold Nanoparticles with Graphene Oxide. Journal of Nanoscience and Nanotechnology, 2014, 14, 3412-3416.	0.9	3
32	Spectroscopic Detection of Clenbuterol Applying Gold Nanoparticles Encapsulated with Melamine. Journal of Nanoscience and Nanotechnology, 2014, 14, 3373-3379.	0.9	0