Jingzhi Shang

List of Publications by Year
in descending order

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46 papers	5,678 citations	218677 26 h-index	233421 45 g-index
46 all docs	46 docs citations	46 times ranked	10083 citing authors

#	Article	IF	Citations
1	Pyridinic N doped graphene: synthesis, electronic structure, and electrocatalytic property. Journal of Materials Chemistry, 2011, 21, 8038.	6.7	896
2	Synthesis and Optical Properties of Largeâ€Area Singleâ€Crystalline 2D Semiconductor WS₂ Monolayer from Chemical Vapor Deposition. Advanced Optical Materials, 2014, 2, 131-136.	7.3	513
3	The Origin of Fluorescence from Graphene Oxide. Scientific Reports, 2012, 2, 792.	3.3	505
4	Strain-induced directâ€“indirect bandgap transition and phonon modulation in monolayer WS2. Nano Research, 2015, 8, 2562-2572.	10.4	323
5	Observation of Excitonic Fine Structure in a 2D Transition-Metal Dichalcogenide Semiconductor. ACS Nano, 2015, 9, 647-655.	14.6	288
6	Nonblinking, Intense Two-Dimensional Light Emitter: Monolayer WS₂ Triangles. ACS Nano, 2013, 7, 10985-10994.	14.6	281
7	Thermal conductivity determination of suspended mono- and bilayer WS2 by Raman spectroscopy. Nano Research, 2015, 8, 1210-1221.	10.4	280
8	Optical Properties of 2D Semiconductor WS₂. Advanced Optical Materials, 2018, 6, 1700767.	7.3	265
9	Direct Photoluminescence Probing of Ferromagnetism in Monolayer Two-Dimensional CrBr₃. Nano Letters, 2019, 19, 3138-3142.	9.1	265
10	Grapheneâ€“Gold Metasurface Architectures for Ultrasensitive Plasmonic Biosensing. Advanced Materials, 2015, 27, 6163-6169.	21.0	262
11	Chemically Driven Tunable Light Emission of Charged and Neutral Excitons in Monolayer WS₂. ACS Nano, 2014, 8, 11320-11329.	14.6	236
12	Raman Characterization of ABA- and ABC-Stacked Trilayer Graphene. ACS Nano, 2011, 5, 8760-8768.	14.6	184
13	Electrically Tunable Valley-Light Emitting Diode (vLED) Based on CVD-Grown Monolayer WS₂. Nano Letters, 2016, 16, 1560-1567.	9.1	175
14	Dichroic spinâ€“valley photocurrent in monolayer molybdenum disulphide. Nature Communications, 2015, 6, 7636.	12.8	128
15	Ultrastable FeCo Bifunctional Electrocatalyst on Se-Doped CNTs for Liquid and Flexible All-Solid-State Rechargeable Znâ€“Air Batteries. Nano Letters, 2021, 21, 2255-2264.	9.1	120
16	Room-temperature 2D semiconductor activated vertical-cavity surface-emitting lasers. Nature Communications, 2017, 8, 543.	12.8	102
17	Largeâ€Scale Synthesis of Biâ€layer Graphene in Strongly Coupled Stacking Order. Advanced Functional Materials, 2011, 21, 911-917.	14.9	90
18	Modulating the electronic structures of graphene by controllable hydrogenation. Applied Physics Letters, 2010, 97, .	3.3	82

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19	Microwave-assisted solvothermal preparation of nitrogen and sulfur co-doped reduced graphene oxide and graphene quantum dots hybrids for highly efficient oxygen reduction. Journal of Materials Chemistry A, 2014, 2, 20605-20611.	10.3	76
20	Ultrafast Electronâ"Optical Phonon Scattering and Quasiparticle Lifetime in CVD-Grown Graphene. ACS Nano, 2011, 5, 3278-3283.	14.6	63
21	Engineering Valley Polarization of Monolayer WS₂: A Physical Doping Approach. Small, 2019, 15, e1805503.	10.0	62
22	Photocontrolled Molecular Structural Transition and Doping in Graphene. ACS Nano, 2012, 6, 8878-8886.	14.6	58
23	Femtosecond UV-pump/visible-probe measurements of carrier dynamics in stacked graphene films. Applied Physics Letters, 2010, 97, 163103.	3.3	56
24	Inâ€Plane Anisotropic Thermal Conductivity of Fewâ€Layered Transition Metal Dichalcogenide Tdâ€WTe₂. Advanced Materials, 2019, 31, e1804979.	21.0	45
25	Thickness-dependent azobenzene doping in mono- and few-layer graphene. Carbon, 2012, 50, 201-208.	10.3	44
26	Light Sources and Photodetectors Enabled by 2D Semiconductors. Small Methods, 2018, 2, 1800019.	8.6	35
27	Raman scattering investigation of twisted WS2/MoS2 heterostructures: interlayer mechanical coupling versus charge transfer. Nano Research, 2021, 14, 2215-2223.	10.4	29
28	Visualizing the Anomalous Charge Density Wave States in Graphene/NbSe₂ Heterostructures. Advanced Materials, 2020, 32, e2003746.	21.0	23
29	Room-temperature continuous-wave vertical-cavity surface-emitting lasers based on 2D layered organicâ€"inorganic hybrid perovskites. APL Materials, 2021, 9, 071106.	5.1	21
30	Antiâ€Stokes Photoluminescence of van der Waals Layered Semiconductor PbI₂. Advanced Optical Materials, 2017, 5, 1700609.	7.3	20
31	Tunable excitonic emission of monolayer WS2 for the optical detection of DNA nucleobases. Nano Research, 2018, 11, 1744-1754.	10.4	20
32	Probing magnetic-proximity-effect enlarged valley splitting in monolayer WSe2 by photoluminescence. Nano Research, 2018, 11, 6252-6259.	10.4	20
33	Revealing electronic nature of broad bound exciton bands in two-dimensional semiconducting <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">W</mml:mi><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Mo</mml:mi><mml:msub><mml:mi	2.4	19
34	Defect suppression and energy level alignment in formamidinium-based perovskite solar cells. Journal of Energy Chemistry, 2022, 67, 65-72.	12.9	19
35	Continuousâ€Wave Vertical Cavity Surfaceâ€Emitting Lasers based on Single Crystalline Lead Halide Perovskites. Advanced Optical Materials, 2021, 9, 2001982.	7.3	16
36	Low temperature photoresponse of monolayer tungsten disulphide. APL Materials, 2014, 2, .	5.1	10

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37	Observation of lowâ€wavenumber outâ€ofâ€plane optical phonon in fewâ€layer graphene. Journal of Raman Spectroscopy, 2013, 44, 70-74.	2.5	9
38	Intrinsic excitonic emission and valley Zeeman splitting in epitaxial MS2 (M = Mo and W) monolayers on hexagonal boron nitride. Nano Research, 2018, 11, 6227-6236.	10.4	8
39	Observation of Strong Valley Magnetic Response in Monolayer Transition Metal Dichalcogenide Alloys of Mo_{0.5}W_{0.5}Se₂ and Mo_{0.5}W_{0.5}Se₂/WS₂ Heterostructures. ACS Nano, 2021, 15, 8397-8406.	14.6	8
40	Spatial variations of valley splitting in monolayer transition metal dichalcogenide. InformaÄnÃ-MateriÃ¡ly, 2020, 2, 585-592.	17.3	5
41	Observation of Bragg polaritons in monolayer tungsten disulphide. Nano Research, 2022, 15, 1479-1485.	10.4	5
42	Monolayer tungsten disulfide in photonic environment: Angle-resolved weak and strong light-matter coupling. Nano Research, 2022, 15, 5619-5625.	10.4	5
43	Deterministic and Scalable Generation of Exciton Emitters in 2D Semiconductor Nanodisks. Advanced Optical Materials, 2022, 10, .	7.3	3
44	Whiteâ€Light Driven Resonant Emission from a Monolayer Semiconductor. Advanced Materials, 2022, , 2103527.	21.0	2
45	Optical characterization of two-dimensional semiconductors. , 2020, , 135-166.		1
46	Localization of Laterally Confined Modes in a 2D Semiconductor Microcavity. ACS Nano, 2022, 16, 4940-4946.	14.6	1