Jin Zhang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

474 papers	23,110 citations	78 h-index	138 g-index
506 ext. papers	27,145 ext. citations	10.2 avg, IF	7.26 L-index

#	Paper	IF	Citations
474	Graphdiyne/Graphene/Graphdiyne Sandwiched Carbonaceous Anode for Potassium-Ion Batteries.. *ACS Nano*, **2022**,	16.7	11
473	Complex Raman Tensor in Helicity-Changing Raman Spectra of Black Phosphorus under Circularly Polarized Light.. *Journal of Physical Chemistry Letters*, **2022**, 1241-1248	6.4	0
472	Optical Control of Multistage Phase Transition via Phonon Coupling in MoTe_{2}.. *Physical Review Letters*, **2022**, 128, 015702	7.4	2
471	Spatially indirect intervalley excitons in bilayer WSe2. *Physical Review B*, **2022**, 105,	3.3	2
470	Creation of a novel inverted charge density wave state.. *Structural Dynamics*, **2022**, 9, 014501	3.2	0
469	Observation of One-Dimensional Dirac Fermions in Silicon Nanoribbons.. *Nano Letters*, **2022**, 22, 695-701	11.5	3
468	Tracking photocarrier-enhanced electron-phonon coupling in nonequilibrium. *Npj Quantum Materials*, **2022**, 7,	5	1
467	Narrow-chirality distributed single-walled carbon nanotube synthesized from oxide promoted Fe□iC catalyst. *Carbon*, **2022**, 191, 146-152	10.4	2
466	Intrinsic Wettability in Pristine Graphene (Adv. Mater. 6/2022). *Advanced Materials*, **2022**, 34, 2270050	24	0
465	Calibrating the unphysical divergence in TDDFT´+´U simulations of a correlated oxide. *Computational Materials Science*, **2022**, 203, 111167	3.2	
464	Chloroform-Assisted Rapid Growth of Vertical Graphene Array and Its Application in Thermal Interface Materials.. *Advanced Science*, **2022**, e2200737	13.6	3
463	Passivation of Transition Metal Dichalcogenides Monolayers with a Surface-Confined Atomically Thick Sulfur Layer. *Small Structures*, **2022**, 3, 2100224	8.7	
462	Dual-gated single-molecule field-effect transistors beyond Moore's law.. *Nature Communications*, **2022**, 13, 1410	17.4	5
461	Renaissance of One-Dimensional Nanomaterials. *Advanced Functional Materials*, **2022**, 32, 2113192	15.6	1
460	Quantum interference directed chiral raman scattering in two-dimensional enantiomers.. *Nature Communications*, **2022**, 13, 1254	17.4	1
459	Solid supported ruthenium catalyst for growing single-walled carbon nanotubes with narrow chirality distribution. *Carbon*, **2022**, 193, 35-41	10.4	1
458	A Common Tracking Software Project. *Computing and Software for Big Science*, **2022**, 6, 1	6	0

457	Unusual Deformation and Fracture in Gallium Telluride Multilayers.. *Journal of Physical Chemistry Letters*, **2022**, 3831-3839	6.4	2
456	Theoretical Insights into Ultrafast Dynamics in Quantum Materials. *Ultrafast Science*, **2022**, 2022, 1-16		3
455	Highly Potassiophilic Graphdiyne Skeletons Decorated with Cu Quantum Dots Enable Dendrite-Free Potassium Metal Anodes.. *Advanced Materials*, **2022**, e2202685	24	4
454	Subnanometer Single-Walled carbon nanotube growth from Fe-Containing Layered double hydroxides. *Chemical Engineering Journal*, **2022**, 446, 137087	14.7	1
453	Indirect to Direct Charge Transfer Transition in Plasmon-Enabled CO Photoreduction. *Advanced Science*, **2021**, 9, e2102978	13.6	7
452	Monitoring Strain-Controlled Exciton-Phonon Coupling in Layered MoS by Circularly Polarized Light. *Journal of Physical Chemistry Letters*, **2021**, 12, 11555-11562	6.4	
451	Plasmon-Induced Water Splitting on Ag-Alloyed Pt Single-Atom Catalysts. *Frontiers in Chemistry*, **2021**, 9, 742794	5	1
450	Probing Atomic-Scale Fracture of Grain Boundaries in Low-symmetry 2D Materials. *Small*, **2021**, e2102739	11	3
449	Viable substrates for the honeycomb-borophene growth. *Physical Review Materials*, **2021**, 5,	3.2	2
448	Building a Bridge for Carbon Nanotubes from Nanoscale Structure to Macroscopic Application. *Journal of the American Chemical Society*, **2021**, 143, 18805-18819	16.4	7
447	Large-Scale and Flexible Optical Synapses for Neuromorphic Computing and Integrated Visible Information Sensing Memory Processing. *ACS Nano*, **2021**, 15, 1497-1508	16.7	63
446	Unravelling a Zigzag Pathway for Hot Carrier Collection with Graphene Electrode. *Journal of Physical Chemistry Letters*, **2021**, 12, 2886-2891	6.4	0
445	Enhanced tunable second harmonic generation from twistable interfaces and vertical superlattices in boron nitride homostructures. *Science Advances*, **2021**, 7,	14.3	23
444	Growth of Homogeneous High-Density Horizontal SWNT Arrays on Sapphire through a Magnesium-Assisted Catalyst Anchoring Strategy. *Angewandte Chemie*, **2021**, 133, 9416-9419	3.6	
443	Manipulating Weyl quasiparticles by orbital-selective photoexcitation in WTe. *Nature Communications*, **2021**, 12, 1885	17.4	8
442	Growth of Homogeneous High-Density Horizontal SWNT Arrays on Sapphire through a Magnesium-Assisted Catalyst Anchoring Strategy. *Angewandte Chemie - International Edition*, **2021**, 60, 9330-9333	16.4	6
441	Manipulation of the Magnetic Anisotropy of Single Mn Atom via Molecular Ligands. *Nano Letters*, **2021**, 21, 3566-3572	11.5	3
440	Graphene: A promising candidate for charge regulation in high-performance lithium-ion batteries. *Nano Research*, **2021**, 14, 4370	10	8

439	Determining the Oblique Angle of Vertical Graphene Arrays Using Helicity-Resolved Raman Spectroscopy. *Journal of Physical Chemistry C*, **2021**, 125, 8353-8359	3.8	3
438	Core-shell Ag@nitrogen-doped carbon quantum dots modified BiVO4 nanosheets with enhanced photocatalytic performance under Vis-NIR light: Synergism of molecular oxygen activation and surface plasmon resonance. *Chemical Engineering Journal*, **2021**, 410, 128336	14.7	34
437	Atomically Precise Engineering of Single-Molecule Stereoelectronic Effect. *Angewandte Chemie - International Edition*, **2021**, 60, 12274-12278	16.4	6
436	An Ultrafast Nonvolatile Memory with Low Operation Voltage for High-Speed and Low-Power Applications. *Advanced Functional Materials*, **2021**, 31, 2102571	15.6	11
435	Non-Volatile Electrolyte-Gated Transistors Based on Graphdiyne/MoS2 with Robust Stability for Low-Power Neuromorphic Computing and Logic-In-Memory. *Advanced Functional Materials*, **2021**, 31, 2100069	15.6	20
434	Strategies for Scalable Gas-Phase Preparation of Free-Standing Graphene. *CCS Chemistry*, **2021**, 3, 1058-1077	7.7	3
433	Electric Field Tunable Ultrafast Interlayer Charge Transfer in Graphene/WS Heterostructure. *Nano Letters*, **2021**, 21, 4403-4409	11.5	4
432	Synthesis of wafer-scale ultrathin graphdiyne for flexible optoelectronic memory with over 256 storage levels. *CheM*, **2021**, 7, 1284-1296	16.2	11
431	Identification of the Mott Insulating Charge Density Wave State in 1T-TaS_{2}. *Physical Review Letters*, **2021**, 126, 196406	7.4	6
430	Graphdiyne/Graphene Heterostructure: A Universal 2D Scaffold Anchoring Monodispersed Transition-Metal Phthalocyanines for Selective and Durable CO Electroreduction. *Journal of the American Chemical Society*, **2021**, 143, 8679-8688	16.4	26
429	Presence of s-Wave Pairing in Josephson Junctions Made of Twisted Ultrathin Bi2Sr2CaCu2O8+x Flakes. *Physical Review X*, **2021**, 11,	9.1	5
428	Rapid synthesis of few-layer graphdiyne using radio frequency heating and its application for dendrite-free zinc anodes. *2D Materials*, **2021**, 8, 044003	5.9	3
427	Nonadiabatic Dynamics of Photocatalytic Water Splitting on A Polymeric Semiconductor. *Nano Letters*, **2021**, 21, 6449-6455	11.5	8
426	First-principles dynamics of photoexcited molecules and materials towards a quantum description. *Wiley Interdisciplinary Reviews: Computational Molecular Science*, **2021**, 11, e1492	7.9	9
425	Helicity-resolved resonant Raman spectroscopy of layered WS2. *Journal of Raman Spectroscopy*, **2021**, 52, 525-531	2.3	9
424	Aptamer-Functionalized Microdevices for Bioanalysis. *ACS Applied Materials & Interfaces*, **2021**, 13, 9402-9411	9.5	8
423	Cellular processes involved in RAW 264.7 macrophages exposed to NPFF: A transcriptional study. *Peptides*, **2021**, 136, 170469	3.8	0
422	Quartic anharmonicity and ultra-low lattice thermal conductivity of alkali antimonide compounds M3Sb (M = K, Rb and Cs). *International Journal of Energy Research*, **2021**, 45, 6958-6965	4.5	2

421	Local Kondo scattering in 4d-electron RuO nanoclusters on atomically-resolved ultrathin SrRuO films. *Physical Chemistry Chemical Physics*, **2021**, 23, 22526-22531	3.6	
420	The role of entrance functionalization in carbon nanotube-based nanofluidic systems: An intrinsic challenge. *Physics of Fluids*, **2021**, 33, 012015	4.4	4
419	Growth of Semiconducting Single-Walled Carbon Nanotubes Array by Precisely Inhibiting Metallic Tubes Using ZrO Nanoparticles. *Small*, **2021**, 17, e2006605	11	4
418	Ultra-low lattice thermal conductivity and high thermoelectric efficiency of K3AuO. *Journal of Applied Physics*, **2021**, 130, 045101	2.5	1
417	Probing Laser-Induced Plasma Generation in Liquid Water. *Journal of the American Chemical Society*, **2021**, 143, 10382-10388	16.4	2
416	High-Throughput Screening of Element-Doped Carbon Nanotubes Toward an Optimal One-Dimensional Superconductor. *Journal of Physical Chemistry Letters*, **2021**, 12, 6667-6675	6.4	0
415	Complete structural characterization of single carbon nanotubes by Rayleigh scattering circular dichroism. *Nature Nanotechnology*, **2021**, 16, 1073-1078	28.7	9
414	Polarized Raman Spectroscopy for Determining Crystallographic Orientation of Low-Dimensional Materials. *Journal of Physical Chemistry Letters*, **2021**, 12, 7442-7452	6.4	8
413	Vertical Graphene Arrays as Electrodes for Ultra-High Energy Density AC Line-Filtering Capacitors. *Angewandte Chemie - International Edition*, **2021**, 60, 24505-24509	16.4	4
412	Deep-learning-based image registration for nano-resolution tomographic reconstruction. *Journal of Synchrotron Radiation*, **2021**, 28, 1909-1915	2.4	2
411	Confined Fe Catalysts for High-Density SWNT Arrays Growth: a New Territory for Catalyst-Substrate Interaction Engineering. *Small*, **2021**, 17, e2103433	11	1
410	Accurate reconstruction algorithm for bilateral differential phase signals. *Radiation Detection Technology and Methods*, **2021**, 5, 474-479	0.7	
409	Engineering Three-Dimensional Moir Flat Bands. *Nano Letters*, **2021**, 21, 7519-7526	11.5	3
408	Bi/Ti-phenolic network induced biomimetic synthesis of mesoporous hierarchical bimetallic hybrid nanocatalysts with enhanced visible-light photocatalytic performance. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2021**, 629, 127518	5.1	2
407	Inspecting the nonbonding and antibonding orbitals in a surface-supported metal-organic framework. *Chemical Communications*, **2021**, 57, 4580-4583	5.8	2
406	Automatic 3D image registration for nano-resolution chemical mapping using synchrotron spectro-tomography. *Journal of Synchrotron Radiation*, **2021**, 28, 278-282	2.4	6
405	Depth-dependent valence stratification driven by oxygen redox in lithium-rich layered oxide. *Nature Communications*, **2020**, 11, 6342	17.4	13
404	Continuous "Snowing" Thermotherapeutic Graphene. *Advanced Materials*, **2020**, 32, e2002024	24	9

403	Probing Nonequilibrium Dynamics of Photoexcited Polarons on a Metal-Oxide Surface with Atomic Precision. *Physical Review Letters*, **2020**, 124, 206801	7.4	16
402	Quartic anharmonicity and anomalous thermal conductivity in cubic antiperovskites A3BO (A=K, Rb; B=Br, Au). *Physical Review B*, **2020**, 101,	3.3	6
401	A comprehensive study of phonon thermal transport in 2D IV-VI semiconductors MX (M = Ge, Sn; X = S, Se). *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2020**, 384, 126676	2.3	2
400	The effect of moir superstructures on topological edge states in twisted bismuthene homojunctions. *Science Advances*, **2020**, 6, eaba2773	14.3	21
399	Temperature-Mediated Engineering of Graphdiyne Framework Enabling High-Performance Potassium Storage. *Advanced Functional Materials*, **2020**, 30, 2003039	15.6	35
398	Local modulation of excitons and trions in monolayer WS2 by carbon nanotubes. *Nano Research*, **2020**, 13, 1982-1987	10	3
397	MgB4 trilayer film: A four-gap superconductor. *Physical Review B*, **2020**, 101,	3.3	2
396	Growth of Single-Walled Carbon Nanotubes with Controlled Structure: Floating Carbide Solid Catalysts. *Angewandte Chemie - International Edition*, **2020**, 59, 10884-10887	16.4	13
395	Growth of Single-Walled Carbon Nanotubes with Controlled Structure: Floating Carbide Solid Catalysts. *Angewandte Chemie*, **2020**, 132, 10976-10979	3.6	
394	Electric-Field-Assisted Growth of Vertical Graphene Arrays and the Application in Thermal Interface Materials. *Advanced Functional Materials*, **2020**, 30, 2003302	15.6	50
393	Reducing Anomalous Hysteresis in Perovskite Solar Cells by Suppressing the Interfacial Ferroelectric Order. *ACS Applied Materials & Interfaces*, **2020**, 12, 12275-12284	9.5	8
392	Graphdiyne Coupled with g-C3N4/NiFe-Layered Double Hydroxide, a Layered Nanohybrid for Highly Efficient Photoelectrochemical Water Oxidation. *Advanced Materials Interfaces*, **2020**, 7, 1902083	4.6	14
391	Mixed-Dimensional Vertical Point pn Junctions. *ACS Nano*, **2020**, 14, 3181-3189	16.7	10
390	Visualizing molecular orientational ordering and electronic structure in CsnC60 fulleride films. *Physical Review B*, **2020**, 101,	3.3	7
389	Rotational and Vibrational Excitations of a Single Water Molecule by Inelastic Electron Tunneling Spectroscopy. *Journal of Physical Chemistry Letters*, **2020**, 11, 1650-1655	6.4	2
388	Toward attosecond control of electron dynamics in two-dimensional materials. *Applied Physics Letters*, **2020**, 116, 043101	3.4	10
387	Differentiated Visualization of Single-Cell 5-Hydroxymethylpyrimidines with Microfluidic Hydrogel Encoding. *Journal of the American Chemical Society*, **2020**, 142, 2889-2896	16.4	18
386	Catalyst-Free Synthesis of Few-Layer Graphdiyne Using a Microwave-Induced Temperature Gradient at a Solid/Liquid Interface. *Advanced Functional Materials*, **2020**, 30, 2001396	15.6	28

385	Gate-Tunable Reversible Rashba-Edelstein Effect in a Few-Layer Graphene/2H-TaS Heterostructure at Room Temperature. *ACS Nano*, **2020**, 14, 5251-5259	16.7	25
384	Emergence of d-orbital magnetic Dirac fermions in a MoS2 monolayer with squared pentagon structure. *Physical Review B*, **2020**, 101,	3.3	3
383	Epitaxial growth and band structure of antiferromagnetic Mott insulator CeOI. *Physical Review Materials*, **2020**, 4,	3.2	1
382	Low lattice thermal conductivity and high figure of merit in p-type doped K3IO. *Chinese Physics B*, **2020**, 29, 126501	1.2	0
381	Electronic Structures and Catalytic Activities of Niobium Oxides as Electrocatalysts in Liquid-Junction Photovoltaic Devices. *Solar Rrl*, **2020**, 4, 1900430	7.1	17
380	Ultrafast charge ordering by self-amplified exciton-phonon dynamics in TiSe. *Nature Communications*, **2020**, 11, 43	17.4	26
379	Graphdiyne for crucial gas involved catalytic reactions in energy conversion applications. *Energy and Environmental Science*, **2020**, 13, 1326-1346	35.4	65
378	Anomalous electronic and thermoelectric transport properties in cubic Rb3AuO antiperovskite. *Physical Review B*, **2020**, 102,	3.3	2
377	Horizontal Single-Walled Carbon Nanotube Arrays: Controlled Synthesis, Characterizations, and Applications. *Chemical Reviews*, **2020**, 120, 12592-12684	68.1	27
376	Graphene Oxide "Surfactant"-Directed Tunable Concentration of Graphene Dispersion. *Small*, **2020**, 16, e2003426	11	12
375	First-principles study of phonon thermal transport in III-VI group graphenelike materials. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2020**, 38, 062202	2.9	1
374	The structural, electronic and optic properties in a series of M2XY (M = Ga, In; X,Y = S, Se, Te) Janus monolayer materials based on GW and the Bethe-Salpeter equation. *European Physical Journal B*, **2020**, 93, 1	1.2	3
373	Bridging the Gap between Reality and Ideality of Graphdiyne: The Advances of Synthetic Methodology. *CheM*, **2020**, 6, 1933-1951	16.2	20
372	Unique structural advances of graphdiyne for energy applications. *EnergyChem*, **2020**, 2, 100041	36.9	21
371	Atomic-Scale Studies of Overlapping Grain Boundaries between Parallel and Quasi-Parallel Grains in Low-Symmetry Monolayer ReS2. *Matter*, **2020**, 3, 2108-2123	12.7	5
370	Charge-Transfer Plasmon Polaritons at Graphene/□RuCl Interfaces. *Nano Letters*, **2020**, 20, 8438-8445	11.5	17
369	Single-water-dipole-layer-driven Reversible Charge Order Transition in 1-TaS. *Nano Letters*, **2020**, 20, 8854-8860	11.5	4
368	Phase Transition Photodetection in Charge Density Wave Tantalum Disulfide. *Nano Letters*, **2020**, 20, 6725-6731	11.5	5

367	Vertically Aligned Graphene for Thermal Interface Materials. *Small Structures*, **2020**, 1, 2000034	8.7	13
366	Characterization of Excitonic Nature in Raman Spectra Using Circularly Polarized Light. *ACS Nano*, **2020**, 14, 10527-10535	16.7	15
365	Ultrafast Optical Modulation of Harmonic Generation in Two-Dimensional Materials. *Nano Letters*, **2020**, 20, 8053-8058	11.5	14
364	Role of Explicitly Included Solvents on Ultrafast Electron Injection and Recombination Dynamics at TiO/Dye Interfaces. *ACS Applied Materials & Interfaces*, **2020**, 12, 49174-49181	9.5	2
363	Band Engineering of Carbon Nanotubes for Device Applications. *Matter*, **2020**, 3, 664-695	12.7	13
362	Integrated Plasmonics: Broadband Dirac Plasmons in Borophene. *Physical Review Letters*, **2020**, 125, 116802	7.4	23
361	Carbon fiber-promoted activation of catalyst for efficient growth of single-walled carbon nanotubes. *Carbon*, **2020**, 156, 410-415	10.4	10
360	Growth of high-density horizontal SWNT arrays using multi-cycle in-situ loading catalysts. *Carbon*, **2020**, 157, 164-168	10.4	9
359	Carbon nanotube: Controlled synthesis determines its future. *Science China Materials*, **2020**, 63, 16-34	7.1	9
358	Gas exfoliation of graphitic carbon nitride to improve the photocatalytic hydrogen evolution of metal-free 2D/2D g-C3N4/graphdiyne heterojunction. *Journal of Alloys and Compounds*, **2020**, 833, 155054	5.7	26
357	Water nanostructure formation on oxide probed in situ by optical resonances. *Science Advances*, **2019**, 5, eaax6973	14.3	11
356	Ideal type-II Weyl phonons in wurtzite CuI. *Physical Review B*, **2019**, 100,	3.3	22
355	Global Photocurrent Generation in Phototransistors Based on Single-Walled Carbon Nanotubes toward Highly Sensitive Infrared Detection. *Advanced Optical Materials*, **2019**, 7, 1900597	8.1	6
354	Transparent proton transport through a two-dimensional nanomesh material. *Nature Communications*, **2019**, 10, 3971	17.4	32
353	Two-gap and three-gap superconductivity in AlB2-based films. *Physical Review B*, **2019**, 100,	3.3	9
352	Real-Space Imaging of Orbital Selectivity on SrTiO(001) Surface. *ACS Applied Materials & Interfaces*, **2019**, 11, 37279-37284	9.5	3
351	Superhydrophilic Graphdiyne Accelerates Interfacial Mass/Electron Transportation to Boost Electrocatalytic and Photoelectrocatalytic Water Oxidation Activity. *Advanced Functional Materials*, **2019**, 29, 1808079	15.6	68
350	Bifacial Raman Enhancement on Monolayer Two-Dimensional Materials. *Nano Letters*, **2019**, 19, 1124-1130	11.5	7

349	Cooperative evolution of intraband and interband excitations for high-harmonic generation in strained MoS2. *Physical Review B*, **2019**, 99,	3.3	17
348	Superstructure-Induced Splitting of Dirac Cones in Silicene. *Physical Review Letters*, **2019**, 122, 196801	7.4	14
347	Coexistence of Different Charge-Transfer Mechanisms in the Hot-Carrier Dynamics of Hybrid Plasmonic Nanomaterials. *Nano Letters*, **2019**, 19, 3187-3193	11.5	23
346	Hard BN Clathrate Superconductors. *Journal of Physical Chemistry Letters*, **2019**, 10, 2554-2560	6.4	9
345	Superhydrophilic Graphdiyne: Superhydrophilic Graphdiyne Accelerates Interfacial Mass/Electron Transportation to Boost Electrocatalytic and Photoelectrocatalytic Water Oxidation Activity (Adv. Funct. Mater. 16/2019). *Advanced Functional Materials*, **2019**, 29, 1970107	15.6	
344	Spin-Orientation-Dependent Topological States in Two-Dimensional Antiferromagnetic NiTlS Monolayers. *Nano Letters*, **2019**, 19, 3321-3326	11.5	18
343	Doping modulated in-plane anisotropic Raman enhancement on layered ReS2. *Nano Research*, **2019** , 12, 563-568	10	9
342	Electrical control of spatial resolution in mixed-dimensional heterostructured photodetectors. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 6586-6593	11.5	14
341	Flat AgTe Honeycomb Monolayer on Ag(111). *Journal of Physical Chemistry Letters*, **2019**, 10, 1866-1871	6.4	17
340	Advance in Close-Edged Graphene Nanoribbon: Property Investigation and Structure Fabrication. *Small*, **2019**, 15, e1804473	11	16
339	Sub-10 nm Monolayer MoS Transistors Using Single-Walled Carbon Nanotubes as an Evaporating Mask. *ACS Applied Materials & Interfaces*, **2019**, 11, 11612-11617	9.5	15
338	Side-group chemical gating via reversible optical and electric control in a single molecule transistor. *Nature Communications*, **2019**, 10, 1450	17.4	53
337	Controllable Growth of (n, n 1) Family of Semiconducting Carbon Nanotubes. *CheM*, **2019**, 5, 1182-1193	16.2	27
336	Preparation of Mo2C arbon nanomaterials for hydrogen evolution reaction. *Carbon Letters*, **2019**, 29, 225-232	2.3	2
335	Exploring Approaches for the Synthesis of Few-Layered Graphdiyne. *Advanced Materials*, **2019**, 31, e1803758	24	42
334	Engineering Dirac states in graphene: Coexisting type-I and type-II Floquet-Dirac fermions. *Physical Review B*, **2019**, 99,	3.3	6
333	Reply to omment on b initio evidence for nonthermal characteristics in ultrafast laser melting *Physical Review B*, **2019**, 99,	3.3	3
332	Graphdiyne Nanowall for Enhanced Photoelectrochemical Performance of Si Heterojunction Photoanode. *ACS Applied Materials & Interfaces*, **2019**, 11, 2745-2749	9.5	20

331	Atomic Pd on Graphdiyne/Graphene Heterostructure as Efficient Catalyst for Aromatic Nitroreduction. *Advanced Functional Materials*, **2019**, 29, 1905423	15.6	66
330	Photoexcitation Induced Quantum Dynamics of Charge Density Wave and Emergence of a Collective Mode in 1-TaS. *Nano Letters*, **2019**, 19, 6027-6034	11.5	16
329	Ultrafast Catalyst-Free Graphene Growth on Glass Assisted by Local Fluorine Supply. *ACS Nano*, **2019**, 13, 10272-10278	16.7	19
328	Band evolution of two-dimensional transition metal dichalcogenides under electric fields. *Applied Physics Letters*, **2019**, 115, 083104	3.4	4
327	The excellent TE performance of photoelectric material CdSe along with a study of Zn(Cd)Se and Zn(Cd)Te based on first-principles.. *RSC Advances*, **2019**, 9, 25471-25479	3.7	6
326	Strong-coupled hybrid structure of carbon nanotube and MoS monolayer with ultrafast interfacial charge transfer. *Nanoscale*, **2019**, 11, 17195-17200	7.7	10
325	Carburization of Fe/Ni Catalyst for Efficient Growth of Single-Walled Carbon Nanotubes. *Small*, **2019**, 15, e1902240	11	6
324	Extreme nonlinear strong-field photoemission from carbon nanotubes. *Nature Communications*, **2019**, 10, 4891	17.4	8
323	Mechanical deformations of carbon nanorings: a study by molecular dynamics and nonlocal continuum mechanics. *Meccanica*, **2019**, 54, 2281-2293	2.1	2
322	Linear Dichroism and Nondestructive Crystalline Identification of Anisotropic Semimetal Few-Layer MoTe. *Small*, **2019**, 15, e1903159	11	13
321	Giant photoinduced lattice distortion in oxygen vacancy ordered SrCoO2.5 thin films. *Physical Review B*, **2019**, 100,	3.3	2
320	Growth of Single-Walled Carbon Nanotubes with Different Chirality on Same Solid Cobalt Catalysts at Low Temperature. *Small*, **2019**, 15, e1903896	11	8
319	2D MoTe2: Linear Dichroism and Nondestructive Crystalline Identification of Anisotropic Semimetal Few-Layer MoTe2 (Small 44/2019). *Small*, **2019**, 15, 1970239	11	1
318	Nucleation and dissociation of methane clathrate embryo at the gas-water interface. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 23410-23415	11.5	10
317	Synthesis of Hydrogen-Substituted Graphyne Film for Lithium-Sulfur Battery Applications. *Small*, **2019**, 15, e1805344	11	29
316	Quantum dynamics simulations: combining path integral nuclear dynamics and real-time TDDFT. *Electronic Structure*, **2019**, 1, 044005	2.6	4
315	Dynamic defect as nonradiative recombination center in semiconductors. *Physical Review B*, **2019**, 100,	3.3	2
314	Growth kinetics of single-walled carbon nanotubes with a (2,) chirality selection. *Science Advances*, **2019**, 5, eaav9668	14.3	32

313	Designing Catalysts for Chirality-Selective Synthesis of Single-Walled Carbon Nanotubes: Past Success and Future Opportunity. *Advanced Materials*, **2019**, 31, e1800805	24	43
312	Improving Photovoltaic Stability and Performance of Perovskite Solar Cells by Molecular Interface Engineering. *Journal of Physical Chemistry C*, **2019**, 123, 1219-1225	3.8	12
311	Carbon nanotubes assisting interchain charge transport in semiconducting polymer thin films towards much improved charge carrier mobility. *Science China Materials*, **2019**, 62, 813-822	7.1	6
310	Graphdiyne: synthesis, properties, and applications. *Chemical Society Reviews*, **2019**, 48, 908-936	58.5	337
309	Water transport through subnanopores in the ultimate size limit: Mechanism from molecular dynamics. *Nano Research*, **2019**, 12, 587-592	10	15
308	Synthesis and Applications of Graphdiyne-Based Metal-Free Catalysts. *Advanced Materials*, **2019**, 31, e1803762	24	92
307	Template Synthesis of an Ultrathin Graphdiyne-Like Film Using the Eglinton Coupling Reaction. *ACS Applied Materials & Interfaces*, **2019**, 11, 2734-2739	9.5	41
306	Synthesis of Ultrathin Graphdiyne Film Using a Surface Template. *ACS Applied Materials & Interfaces*, **2019**, 11, 2632-2637	9.5	65
305	Universal Scaling of Intrinsic Resistivity in Two-Dimensional Metallic Borophene. *Angewandte Chemie - International Edition*, **2018**, 57, 4585-4589	16.4	18
304	A combined experimental and theoretical investigation of donor and acceptor interface in efficient aqueous-processed polymer/nanocrystal hybrid solar cells. *Science China Chemistry*, **2018**, 61, 437-443	7.9	6
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