Lianming Tong

List of Publications by Year
in descending order

97 papers	5,111 citations	71102 41 h-index	88630 70 g-index
98 all docs	98 docs citations	98 times ranked	7474 citing authors

#	Article	IF	Citations
1	Tuning bandstructure of folded MoS2 through fluid dynamics. Nano Research, 2022, 15, 2734-2740.	10.4	7
2	Highly Efficient Photothermal Conversion and Water Transport during Solar Evaporation Enabled by Amorphous Hollow Multishelled Nanocomposites. Advanced Materials, 2022, 34, e2107400.	21.0	68
3	The helicity of Raman scattered light: principles and applications in two-dimensional materials. Science China Chemistry, 2022, 65, 269-283.	8.2	12
4	Graphdiyne/Graphene/Graphdiyne Sandwiched Carbonaceous Anode for Potassium-Ion Batteries. ACS Nano, 2022, 16, 3163-3172.	14.6	56
5	Complex Raman Tensor in Helicity-Changing Raman Spectra of Black Phosphorus under Circularly Polarized Light. Journal of Physical Chemistry Letters, 2022, 13, 1241-1248.	4.6	4
6	Multishelled CuO/Cu2O induced fast photo-vapour generation for drinking water. Nano Research, 2022, 15, 4117-4123.	10.4	13
7	Oneâ€Interlayerâ€Twisted Multilayer MoS₂ MoirÃ© Superlattices. Advanced Functional Materials, 2022, 32, .	14.9	16
8	Highly Efficient Photothermal Conversion and Water Transport during Solar Evaporation Enabled by Amorphous Hollow Multishelled Nanocomposites (Adv. Mater. 7/2022). Advanced Materials, 2022, 34, .	21.0	1
9	Quantum interference directed chiral raman scattering in two-dimensional enantiomers. Nature Communications, 2022, 13, 1254.	12.8	12
10	Abnormal intensity and polarization of Raman scattered light at edges of layered MoS2. Nano Research, 2022, 15, 6416-6421.	10.4	2
11	First-principles calculations of double resonance Raman spectra for monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>MoTe</mml:mi></mml:mrow><mml:mn>2</mml:mn> Physical Review B, 2022, 105, .	3.2	4
12	Twist-Induced New Phonon Scattering Pathways in Bilayer Graphene Probed by Helicity-Resolved Raman Spectroscopy. Journal of Physical Chemistry C, 2022, 126, 10487-10493.	3.1	3
13	Rapid Synthesis of Graphdiyne Films on Hydrogel at the Superspreading Interface for Antibacteria. ACS Nano, 2022, 16, 11338-11345.	14.6	30
14	Helicityâ€resolved resonant Raman spectroscopy of layered WS₂. Journal of Raman Spectroscopy, 2021, 52, 525-531.	2.5	16
15	Nonlinear Amplification of Chirality in Self-Assembled Plasmonic Nanostructures. ACS Nano, 2021, 15, 5715-5724.	14.6	17
16	Determining the Oblique Angle of Vertical Graphene Arrays Using Helicity-Resolved Raman Spectroscopy. Journal of Physical Chemistry C, 2021, 125, 8353-8359.	3.1	5
17	Hetero-site nucleation for growing twisted bilayer graphene with a wide range of twist angles. Nature Communications, 2021, 12, 2391.	12.8	92
18	Synthesis of wafer-scale ultrathin graphdiyne for flexible optoelectronic memory with over 256 storage levels. CheM, 2021, 7, 1284-1296.	11.7	34

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19	Rapid synthesis of few-layer graphdiyne using radio frequency heating and its application for dendrite-free zinc anodes. 2D Materials, 2021, 8, 044003.	4.4	10
20	Polarized Raman Spectroscopy for Determining Crystallographic Orientation of Low-Dimensional Materials. Journal of Physical Chemistry Letters, 2021, 12, 7442-7452.	4.6	28
21	Monitoring Strain-Controlled Excitonâ€“Phonon Coupling in Layered MoS₂ by Circularly Polarized Light. Journal of Physical Chemistry Letters, 2021, 12, 11555-11562.	4.6	1
22	Anisotropic Raman spectrum and transport properties of AuTe₂Br flakes. Journal of Physics Condensed Matter, 2020, 32, 12LT01.	1.8	4
23	Bridging the Gap between Reality and Ideality of Graphdiyne: The Advances of Synthetic Methodology. CheM, 2020, 6, 1933-1951.	11.7	54
24	Characterization of Excitonic Nature in Raman Spectra Using Circularly Polarized Light. ACS Nano, 2020, 14, 10527-10535.	14.6	21
25	Local modulation of excitons and trions in monolayer WS2 by carbon nanotubes. Nano Research, 2020, 13, 1982-1987.	10.4	5
26	Catalystâ€Free Synthesis of Fewâ€Layer Graphdiyne Using a Microwaveâ€Induced Temperature Gradient at a Solid/Liquid Interface. Advanced Functional Materials, 2020, 30, 2001396.	14.9	54
27	Atomic Pd on Graphdiyne/Graphene Heterostructure as Efficient Catalyst for Aromatic Nitroreduction. Advanced Functional Materials, 2019, 29, 1905423.	14.9	112
28	Bifacial Raman Enhancement on Monolayer Two-Dimensional Materials. Nano Letters, 2019, 19, 1124-1130.	9.1	10
29	Doping modulated in-plane anisotropic Raman enhancement on layered ReS2. Nano Research, 2019, 12, 563-568.	10.4	15
30	Scalable and ultrafast epitaxial growth of single-crystal graphene wafers for electrically tunable liquid-crystal microlens arrays. Science Bulletin, 2019, 64, 659-668.	9.0	66
31	Exploring quantification in a mixture using graphene-based surface-enhanced Raman spectroscopy. Applied Materials Today, 2019, 15, 288-293.	4.3	12
32	Synthesis of Hydrogenâ€Substituted Graphyne Film for Lithiumâ€“Sulfur Battery Applications. Small, 2019, 15, 1805344.	10.0	42
33	Raman Spectroscopy of Anisotropic Two-Dimensional Materials. Springer Series in Materials Science, 2019, , 53-80.	0.6	3
34	Inâ€Plane Optical Anisotropy of Lowâ€Symmetry 2D GeSe. Advanced Optical Materials, 2019, 7, 1801311.	7.3	68
35	Template Synthesis of an Ultrathin Î²-Graphdiyne-Like Film Using the Eglinton Coupling Reaction. ACS Applied Materials & Interfaces, 2019, 11, 2734-2739.	8.0	69
36	Synthesis of Ultrathin Graphdiyne Film Using a Surface Template. ACS Applied Materials & Interfaces, 2019, 11, 2632-2637.	8.0	103

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37	Lattice Vibration and Raman Scattering in Anisotropic Black Phosphorus Crystals. Small Methods, 2018, 2, 1700409.	8.6	37
38	Anisotropic Strain Relaxation of Graphene by Corrugation on Copper Crystal Surfaces. Small, 2018, 14, e1800725.	10.0	46
39	Spotting the differences in two-dimensional materials â€“ the Raman scattering perspective. Chemical Society Reviews, 2018, 47, 3217-3240.	38.1	71
40	Direct synthesis and in situ characterization of monolayer parallelogrammic rhenium diselenide on gold foil. Communications Chemistry, 2018, 1, .	4.5	58
41	Application of chemical vaporâ€“deposited monolayer ReSe2 in the electrocatalytic hydrogen evolution reaction. Nano Research, 2018, 11, 1787-1797.	10.4	71
42	Anisotropic Ramanâ€Enhancement Effect on Singleâ€Walled Carbon Nanotube Arrays. Advanced Materials Interfaces, 2018, 5, 1700941.	3.7	3
43	Selective sorting of metallic/semiconducting single-walled carbon nanotube arrays by â€˜igniter-assisted gas-phase etchingâ€™. Materials Chemistry Frontiers, 2018, 2, 157-162.	5.9	6
44	The road to chirality-specific growth of single-walled carbon nanotubes. National Science Review, 2018, 5, 310-312.	9.5	8
45	Investigation of black phosphorus as a nano-optical polarization element by polarized Raman spectroscopy. Nano Research, 2018, 11, 3154-3163.	10.4	19
46	Direct Synthesis of Gold Nanoparticleâ€Overâ€Nanosheet for Sensitive SERS Detection. Particle and Particle Systems Characterization, 2018, 36, 1800350.	2.3	3
47	Fast Growth of Strain-Free AlN on Graphene-Buffered Sapphire. Journal of the American Chemical Society, 2018, 140, 11935-11941.	13.7	75
48	Enhanced exfoliation efficiency of graphite into few-layer graphene via reduction of graphite edge. Carbon, 2018, 138, 390-396.	10.3	11
49	Ultrathin graphdiyne film on graphene through solution-phase van der Waals epitaxy. Science Advances, 2018, 4, eaat6378.	10.3	198
50	Raman Signatures of Broken Inversion Symmetry and Inâ€Plane Anisotropy in Typeâ€II Weyl Semimetal Candidate TaIrTe₄. Advanced Materials, 2018, 30, e1706402.	21.0	54
51	Arrays of horizontal carbon nanotubes of controlled chirality grown using designed catalysts. Nature, 2017, 543, 234-238.	27.8	317
52	In Situ Quantitative Graphene-Based Surface-Enhanced Raman Spectroscopy. Small Methods, 2017, 1, 1700126.	8.6	41
53	Realâ€Time Observation of Carbon Nanotube Etching Process Using Polarized Optical Microscope. Advanced Materials, 2017, 29, 1701959.	21.0	13
54	Inâ€Plane Uniaxial Strain in Black Phosphorus Enables the Identification of Crystalline Orientation. Small, 2017, 13, 1700466.	10.0	29

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55	Graphdiyne Filter for Decontaminating Leadâ€Ionâ€Polluted Water. Advanced Electronic Materials, 2017, 3, 1700122.	5.1	56
56	Architecture of Î²â€Graphdiyneâ€Containing Thin Film Using Modified Glaserâ€“Hay Coupling Reaction for Enhanced Photocatalytic Property of TiO₂. Advanced Materials, 2017, 29, 1700421.	21.0	115
57	Solar Transparent Radiators by Optical Nanoantennas. Nano Letters, 2017, 17, 6766-6772.	9.1	35
58	Anomalous Polarized Raman Scattering and Large Circular Intensity Differential in Layered Triclinic ReS₂. ACS Nano, 2017, 11, 10366-10372.	14.6	74
59	Investigation of Etching Behavior of Single-Walled Carbon Nanotubes Using Different Etchants. Journal of Physical Chemistry C, 2017, 121, 27655-27663.	3.1	11
60	Nonlocal Response in Infrared Detector with Semiconducting Carbon Nanotubes and Graphdiyne. Advanced Science, 2017, 4, 1700472.	11.2	29
61	Synthesis of Hierarchical Graphdiyne-Based Architecture for Efficient Solar Steam Generation. Chemistry of Materials, 2017, 29, 5777-5781.	6.7	206
62	Birefringenceâ€Directed Raman Selection Rules in 2D Black Phosphorus Crystals. Small, 2016, 12, 2627-2633.	10.0	57
63	Enhanced Raman Scattering on Graphene and Beyond. ACS Symposium Series, 2016, , 97-119.	0.5	3
64	Raman Spectra and Corresponding Strain Effects in Graphyne and Graphdiyne. Journal of Physical Chemistry C, 2016, 120, 10605-10613.	3.1	116
65	Graphene-Based Enhanced Raman Scattering toward Analytical Applications. Chemistry of Materials, 2016, 28, 6426-6435.	6.7	120
66	Guided transport of nanoparticles by plasmonic nanowires. Nanoscale, 2016, 8, 19195-19199.	5.6	20
67	Optical Anisotropy of Black Phosphorus in the Visible Regime. Journal of the American Chemical Society, 2016, 138, 300-305.	13.7	273
68	Diameter-Specific Growth of Semiconducting SWNT Arrays Using Uniform Mo2C Solid Catalyst. Journal of the American Chemical Society, 2015, 137, 8904-8907.	13.7	71
69	Light-Concentrating Plasmonic Au Superstructures with Significantly Visible-Light-Enhanced Catalytic Performance. ACS Applied Materials & Interfaces, 2015, 7, 8200-8208.	8.0	28
70	Laser Trapping of Colloidal Metal Nanoparticles. ACS Nano, 2015, 9, 3453-3469.	14.6	193
71	Enhanced Raman Scattering on In-Plane Anisotropic Layered Materials. Journal of the American Chemical Society, 2015, 137, 15511-15517.	13.7	122
72	Nanogaps for SERS applications. MRS Bulletin, 2014, 39, 163-168.	3.5	99

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73	Recent Advances in Plasmonic Sensors. Sensors, 2014, 14, 7959-7973.	3.8	182
74	Ultrasensitive Size-Selection of Plasmonic Nanoparticles by Fano Interference Optical Force. ACS Nano, 2014, 8, 701-708.	14.6	75
75	Research progress in surface-plasmon-induced optical force. Scientia Sinica: Physica, Mechanica Et Astronomica, 2014, 44, 1127-1139.	0.4	1
76	Optical properties of single coupled plasmonic nanoparticles. Physical Chemistry Chemical Physics, 2013, 15, 4100.	2.8	31
77	New progress of plasmonics in complex metal nanostructures. Science China: Physics, Mechanics and Astronomy, 2013, 56, 2327-2336.	5.1	9
78	Plasmonic Efficiency Enhancement of High Performance Organic Solar Cells with a Nanostructured Rear Electrode. Advanced Energy Materials, 2013, 3, 145-150.	19.5	76
79	Optical Tweezers for Raman Spectroscopy. , 2012, , 507-530.		3
80	Laser Manipulation of Plasmonic Nanoparticles for SERS and Sensing. , 2012, , 153-167.		0
81	Front side plasmonic effect on thin silicon epitaxial solar cells. Solar Energy Materials and Solar Cells, 2012, 104, 58-63.	6.2	27
82	Approaching the electromagnetic mechanism of surface-enhanced Raman scattering: from self-assembled arrays to individual gold nanoparticles. Chemical Society Reviews, 2011, 40, 1296-1304.	38.1	185
83	Plasmon Hybridization Reveals the Interaction between Individual Colloidal Gold Nanoparticles Confined in an Optical Potential Well. Nano Letters, 2011, 11, 4505-4508.	9.1	46
84	Alignment, Rotation, and Spinning of Single Plasmonic Nanoparticles and Nanowires Using Polarization Dependent Optical Forces. Nano Letters, 2010, 10, 268-273.	9.1	244
85	Optical manipulation of plasmonic nanoparticles using laser tweezers. , 2010, , .		2
86	Optical aggregation of metal nanoparticles in a microfluidic channel for surface-enhanced Raman scattering analysis. Lab on A Chip, 2009, 9, 193-195.	6.0	118
87	Single Gold-Nanoparticle-Enhanced Raman Scattering of Individual Single-Walled Carbon Nanotubes via Atomic Force Microscope Manipulation. Journal of Physical Chemistry C, 2008, 112, 7119-7123.	3.1	59
88	Atomic force microscope manipulation of gold nanoparticles for controlled Raman enhancement. Applied Physics Letters, 2008, 92, 023109.	3.3	31
89	Fabrication of electromechanical switch using interconnected single-walled carbon nanotubes. Applied Physics Letters, 2008, 92, .	3.3	17
90	Formation of nanogaps by nanoscale Cu electrodeposition and dissolution. Electrochimica Acta, 2007, 52, 4210-4214.	5.2	5

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91	Laser irradiation induced spectral evolution of the surface-enhanced raman scattering (SERS) of 4-tert-butylbenzylmercaptan on gold nanoparticles assembly. Science in China Series B: Chemistry, 2007, 50, 520-525.	0.8	4
92	Simultaneous Dielectrophoretic Separation and Assembly of Single-Walled Carbon Nanotubes on Multigap Nanoelectrodes and Their Thermal Sensing Properties. Analytical Chemistry, 2006, 78, 8069-8075.	6.5	26
93	Electrochemical deposition of Prussian blue on hydrogen terminated silicon(111). Thin Solid Films, 2006, 515, 1847-1850.	1.8	17
94	Surface-Enhanced Raman Scattering ofp-Aminothiophenol on a Au(core)/Cu(shell) Nanoparticle Assembly. ChemPhysChem, 2005, 6, 913-918.	2.1	82
95	Reproducible Patterning of Single Au Nanoparticles on Silicon Substrates by Scanning Probe Oxidation and Self-Assembly. Journal of Physical Chemistry B, 2005, 109, 2657-2665.	2.6	37
96	Thermochemical Hole Burning on a Triethylammonium Bis-7,7,8,8-tetracyanoquinodimethane Charge-Transfer Complex Using Single-Walled Carbon Nanotube Scanning Tunneling Microscopy Tips. Journal of Physical Chemistry B, 2005, 109, 3526-3530.	2.6	23
97	Kinetically Controlled Pt Deposition onto Self-Assembled Au Colloids:Â Preparation of Au (Core)â^'Pt (Shell) Nanoparticle Assemblies. Chemistry of Materials, 2004, 16, 3239-3245.	6.7	50