

# Lianming Tong

## List of Publications by Year in descending order

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97  
papers

5,111  
citations

71102

41  
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88630

70  
g-index

98  
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98  
docs citations

98  
times ranked

7474  
citing authors

#	ARTICLE	IF	CITATIONS
1	Arrays of horizontal carbon nanotubes of controlled chirality grown using designed catalysts. <i>Nature</i> , 2017, 543, 234-238.	27.8	317
2	Optical Anisotropy of Black Phosphorus in the Visible Regime. <i>Journal of the American Chemical Society</i> , 2016, 138, 300-305.	13.7	273
3	Alignment, Rotation, and Spinning of Single Plasmonic Nanoparticles and Nanowires Using Polarization Dependent Optical Forces. <i>Nano Letters</i> , 2010, 10, 268-273.	9.1	244
4	Synthesis of Hierarchical Graphdiyne-Based Architecture for Efficient Solar Steam Generation. <i>Chemistry of Materials</i> , 2017, 29, 5777-5781.	6.7	206
5	Ultrathin graphdiyne film on graphene through solution-phase van der Waals epitaxy. <i>Science Advances</i> , 2018, 4, eaat6378.	10.3	198
6	Laser Trapping of Colloidal Metal Nanoparticles. <i>ACS Nano</i> , 2015, 9, 3453-3469.	14.6	193
7	Approaching the electromagnetic mechanism of surface-enhanced Raman scattering: from self-assembled arrays to individual gold nanoparticles. <i>Chemical Society Reviews</i> , 2011, 40, 1296-1304.	38.1	185
8	Recent Advances in Plasmonic Sensors. <i>Sensors</i> , 2014, 14, 7959-7973.	3.8	182
9	Enhanced Raman Scattering on In-Plane Anisotropic Layered Materials. <i>Journal of the American Chemical Society</i> , 2015, 137, 15511-15517.	13.7	122
10	Graphene-Based Enhanced Raman Scattering toward Analytical Applications. <i>Chemistry of Materials</i> , 2016, 28, 6426-6435.	6.7	120
11	Optical aggregation of metal nanoparticles in a microfluidic channel for surface-enhanced Raman scattering analysis. <i>Lab on A Chip</i> , 2009, 9, 193-195.	6.0	118
12	Raman Spectra and Corresponding Strain Effects in Graphyne and Graphdiyne. <i>Journal of Physical Chemistry C</i> , 2016, 120, 10605-10613.	3.1	116
13	Architecture of $\text{TiO}_2$ -Graphdiyne-Containing Thin Film Using Modified Glaser-Hay Coupling Reaction for Enhanced Photocatalytic Property of $\text{TiO}_2$ . <i>Advanced Materials</i> , 2017, 29, 1700421.	21.0	115
14	Atomic Pd on Graphdiyne/Graphene Heterostructure as Efficient Catalyst for Aromatic Nitroreduction. <i>Advanced Functional Materials</i> , 2019, 29, 1905423.	14.9	112
15	Synthesis of Ultrathin Graphdiyne Film Using a Surface Template. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 2632-2637.	8.0	103
16	Nanogaps for SERS applications. <i>MRS Bulletin</i> , 2014, 39, 163-168.	3.5	99
17	Hetero-site nucleation for growing twisted bilayer graphene with a wide range of twist angles. <i>Nature Communications</i> , 2021, 12, 2391.	12.8	92
18	Surface-Enhanced Raman Scattering of p-Aminothiophenol on a Au(core)/Cu(shell) Nanoparticle Assembly. <i>ChemPhysChem</i> , 2005, 6, 913-918.	2.1	82

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19	Plasmonic Efficiency Enhancement of High Performance Organic Solar Cells with a Nanostructured Rear Electrode. <i>Advanced Energy Materials</i> , 2013, 3, 145-150.	19.5	76
20	Ultrasensitive Size-Selection of Plasmonic Nanoparticles by Fano Interference Optical Force. <i>ACS Nano</i> , 2014, 8, 701-708.	14.6	75
21	Fast Growth of Strain-Free AlN on Graphene-Buffered Sapphire. <i>Journal of the American Chemical Society</i> , 2018, 140, 11935-11941.	13.7	75
22	Anomalous Polarized Raman Scattering and Large Circular Intensity Differential in Layered Triclinic $\text{ReS}_2$ . <i>ACS Nano</i> , 2017, 11, 10366-10372.	14.6	74
23	Diameter-Specific Growth of Semiconducting SWNT Arrays Using Uniform $\text{Mo}_2\text{C}$ Solid Catalyst. <i>Journal of the American Chemical Society</i> , 2015, 137, 8904-8907.	13.7	71
24	Spotting the differences in two-dimensional materials – the Raman scattering perspective. <i>Chemical Society Reviews</i> , 2018, 47, 3217-3240.	38.1	71
25	Application of chemical vapor-deposited monolayer $\text{ReSe}_2$ in the electrocatalytic hydrogen evolution reaction. <i>Nano Research</i> , 2018, 11, 1787-1797.	10.4	71
26	Template Synthesis of an Ultrathin $\text{I}^2$ -Graphdiyne-Like Film Using the Eglinton Coupling Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 2734-2739.	8.0	69
27	In-Plane Optical Anisotropy of Low-Symmetry 2D $\text{GeSe}$ . <i>Advanced Optical Materials</i> , 2019, 7, 1801311.	7.3	68
28	Highly Efficient Photothermal Conversion and Water Transport during Solar Evaporation Enabled by Amorphous Hollow Multishelled Nanocomposites. <i>Advanced Materials</i> , 2022, 34, e2107400.	21.0	68
29	Scalable and ultrafast epitaxial growth of single-crystal graphene wafers for electrically tunable liquid-crystal microlens arrays. <i>Science Bulletin</i> , 2019, 64, 659-668.	9.0	66
30	Single Gold-Nanoparticle-Enhanced Raman Scattering of Individual Single-Walled Carbon Nanotubes via Atomic Force Microscope Manipulation. <i>Journal of Physical Chemistry C</i> , 2008, 112, 7119-7123.	3.1	59
31	Direct synthesis and in situ characterization of monolayer parallelogrammic rhenium diselenide on gold foil. <i>Communications Chemistry</i> , 2018, 1, .	4.5	58
32	Birefringence-Directed Raman Selection Rules in 2D Black Phosphorus Crystals. <i>Small</i> , 2016, 12, 2627-2633.	10.0	57
33	Graphdiyne Filter for Decontaminating Lead-Ion-Polluted Water. <i>Advanced Electronic Materials</i> , 2017, 3, 1700122.	5.1	56
34	Graphdiyne/Graphene/Graphdiyne Sandwiched Carbonaceous Anode for Potassium-Ion Batteries. <i>ACS Nano</i> , 2022, 16, 3163-3172.	14.6	56
35	Raman Signatures of Broken Inversion Symmetry and In-Plane Anisotropy in Type-II Weyl Semimetal Candidate $\text{TaIrTe}_4$ . <i>Advanced Materials</i> , 2018, 30, e1706402.	21.0	54
36	Bridging the Gap between Reality and Ideality of Graphdiyne: The Advances of Synthetic Methodology. <i>CheM</i> , 2020, 6, 1933-1951.	11.7	54

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37	Catalyst-Free Synthesis of Few-Layer Graphdiyne Using a Microwave-Induced Temperature Gradient at a Solid/Liquid Interface. <i>Advanced Functional Materials</i> , 2020, 30, 2001396.	14.9	54
38	Kinetically Controlled Pt Deposition onto Self-Assembled Au Colloids: Preparation of Au (Core)-Pt (Shell) Nanoparticle Assemblies. <i>Chemistry of Materials</i> , 2004, 16, 3239-3245.	6.7	50
39	Plasmon Hybridization Reveals the Interaction between Individual Colloidal Gold Nanoparticles Confined in an Optical Potential Well. <i>Nano Letters</i> , 2011, 11, 4505-4508.	9.1	46
40	Anisotropic Strain Relaxation of Graphene by Corrugation on Copper Crystal Surfaces. <i>Small</i> , 2018, 14, e1800725.	10.0	46
41	Synthesis of Hydrogen-Substituted Graphyne Film for Lithium-Sulfur Battery Applications. <i>Small</i> , 2019, 15, 1805344.	10.0	42
42	In Situ Quantitative Graphene-Based Surface-Enhanced Raman Spectroscopy. <i>Small Methods</i> , 2017, 1, 1700126.	8.6	41
43	Reproducible Patterning of Single Au Nanoparticles on Silicon Substrates by Scanning Probe Oxidation and Self-Assembly. <i>Journal of Physical Chemistry B</i> , 2005, 109, 2657-2665.	2.6	37
44	Lattice Vibration and Raman Scattering in Anisotropic Black Phosphorus Crystals. <i>Small Methods</i> , 2018, 2, 1700409.	8.6	37
45	Solar Transparent Radiators by Optical Nanoantennas. <i>Nano Letters</i> , 2017, 17, 6766-6772.	9.1	35
46	Synthesis of wafer-scale ultrathin graphdiyne for flexible optoelectronic memory with over 256 storage levels. <i>CheM</i> , 2021, 7, 1284-1296.	11.7	34
47	Atomic force microscope manipulation of gold nanoparticles for controlled Raman enhancement. <i>Applied Physics Letters</i> , 2008, 92, 023109.	3.3	31
48	Optical properties of single coupled plasmonic nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 4100.	2.8	31
49	Rapid Synthesis of Graphdiyne Films on Hydrogel at the Superspreading Interface for Antibacteria. <i>ACS Nano</i> , 2022, 16, 11338-11345.	14.6	30
50	In-Plane Uniaxial Strain in Black Phosphorus Enables the Identification of Crystalline Orientation. <i>Small</i> , 2017, 13, 1700466.	10.0	29
51	Nonlocal Response in Infrared Detector with Semiconducting Carbon Nanotubes and Graphdiyne. <i>Advanced Science</i> , 2017, 4, 1700472.	11.2	29
52	Light-Concentrating Plasmonic Au Superstructures with Significantly Visible-Light-Enhanced Catalytic Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 8200-8208.	8.0	28
53	Polarized Raman Spectroscopy for Determining Crystallographic Orientation of Low-Dimensional Materials. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 7442-7452.	4.6	28
54	Front side plasmonic effect on thin silicon epitaxial solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012, 104, 58-63.	6.2	27

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55	Simultaneous Dielectrophoretic Separation and Assembly of Single-Walled Carbon Nanotubes on Multigap Nanoelectrodes and Their Thermal Sensing Properties. <i>Analytical Chemistry</i> , 2006, 78, 8069-8075.	6.5	26
56	Thermochemical Hole Burning on a Triethylammonium Bis-7,7,8,8-tetracyanoquinodimethane Charge-Transfer Complex Using Single-Walled Carbon Nanotube Scanning Tunneling Microscopy Tips. <i>Journal of Physical Chemistry B</i> , 2005, 109, 3526-3530.	2.6	23
57	Characterization of Excitonic Nature in Raman Spectra Using Circularly Polarized Light. <i>ACS Nano</i> , 2020, 14, 10527-10535.	14.6	21
58	Guided transport of nanoparticles by plasmonic nanowires. <i>Nanoscale</i> , 2016, 8, 19195-19199.	5.6	20
59	Investigation of black phosphorus as a nano-optical polarization element by polarized Raman spectroscopy. <i>Nano Research</i> , 2018, 11, 3154-3163.	10.4	19
60	Electrochemical deposition of Prussian blue on hydrogen terminated silicon(111). <i>Thin Solid Films</i> , 2006, 515, 1847-1850.	1.8	17
61	Fabrication of electromechanical switch using interconnected single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	17
62	Nonlinear Amplification of Chirality in Self-Assembled Plasmonic Nanostructures. <i>ACS Nano</i> , 2021, 15, 5715-5724.	14.6	17
63	Helicity-resolved resonant Raman spectroscopy of layered $WS_2$ . <i>Journal of Raman Spectroscopy</i> , 2021, 52, 525-531.	2.5	16
64	One-layer twisted Multilayer $MoS_2$ Moiré Superlattices. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	16
65	Doping modulated in-plane anisotropic Raman enhancement on layered $ReS_2$ . <i>Nano Research</i> , 2019, 12, 563-568.	10.4	15
66	Real-time Observation of Carbon Nanotube Etching Process Using Polarized Optical Microscope. <i>Advanced Materials</i> , 2017, 29, 1701959.	21.0	13
67	Multishelled $CuO/Cu_2O$ induced fast photo-vapour generation for drinking water. <i>Nano Research</i> , 2022, 15, 4117-4123.	10.4	13
68	Exploring quantification in a mixture using graphene-based surface-enhanced Raman spectroscopy. <i>Applied Materials Today</i> , 2019, 15, 288-293.	4.3	12
69	The helicity of Raman scattered light: principles and applications in two-dimensional materials. <i>Science China Chemistry</i> , 2022, 65, 269-283.	8.2	12
70	Quantum interference directed chiral raman scattering in two-dimensional enantiomers. <i>Nature Communications</i> , 2022, 13, 1254.	12.8	12
71	Investigation of Etching Behavior of Single-Walled Carbon Nanotubes Using Different Etchants. <i>Journal of Physical Chemistry C</i> , 2017, 121, 27655-27663.	3.1	11
72	Enhanced exfoliation efficiency of graphite into few-layer graphene via reduction of graphite edge. <i>Carbon</i> , 2018, 138, 390-396.	10.3	11

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73	Bifacial Raman Enhancement on Monolayer Two-Dimensional Materials. <i>Nano Letters</i> , 2019, 19, 1124-1130.	9.1	10
74	Rapid synthesis of few-layer graphdiyne using radio frequency heating and its application for dendrite-free zinc anodes. <i>2D Materials</i> , 2021, 8, 044003.	4.4	10
75	New progress of plasmonics in complex metal nanostructures. <i>Science China: Physics, Mechanics and Astronomy</i> , 2013, 56, 2327-2336.	5.1	9
76	The road to chirality-specific growth of single-walled carbon nanotubes. <i>National Science Review</i> , 2018, 5, 310-312.	9.5	8
77	Tuning bandstructure of folded MoS <sub>2</sub> through fluid dynamics. <i>Nano Research</i> , 2022, 15, 2734-2740.	10.4	7
78	Selective sorting of metallic/semiconducting single-walled carbon nanotube arrays by "igniter-assisted gas-phase etching". <i>Materials Chemistry Frontiers</i> , 2018, 2, 157-162.	5.9	6
79	Formation of nanogaps by nanoscale Cu electrodeposition and dissolution. <i>Electrochimica Acta</i> , 2007, 52, 4210-4214.	5.2	5
80	Local modulation of excitons and trions in monolayer WS <sub>2</sub> by carbon nanotubes. <i>Nano Research</i> , 2020, 13, 1982-1987.	10.4	5
81	Determining the Oblique Angle of Vertical Graphene Arrays Using Helicity-Resolved Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2021, 125, 8353-8359.	3.1	5
82	Laser irradiation induced spectral evolution of the surface-enhanced raman scattering (SERS) of 4-tert-butylbenzylmercaptan on gold nanoparticles assembly. <i>Science in China Series B: Chemistry</i> , 2007, 50, 520-525.	0.8	4
83	Anisotropic Raman spectrum and transport properties of AuTe <sub>2</sub> Br flakes. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 12LT01.	1.8	4
84	Complex Raman Tensor in Helicity-Changing Raman Spectra of Black Phosphorus under Circularly Polarized Light. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 1241-1248.	4.6	4
85	First-principles calculations of double resonance Raman spectra for monolayer $\text{MoTe}_2$ . <i>Physical Review B</i> , 2022, 105, .	1.2	4
86	Optical Tweezers for Raman Spectroscopy. , 2012, , 507-530.		3
87	Enhanced Raman Scattering on Graphene and Beyond. <i>ACS Symposium Series</i> , 2016, , 97-119.	0.5	3
88	Anisotropic Raman Enhancement Effect on Single-Walled Carbon Nanotube Arrays. <i>Advanced Materials Interfaces</i> , 2018, 5, 1700941.	3.7	3
89	Direct Synthesis of Gold Nanoparticle-Overlaid Nanosheet for Sensitive SERS Detection. <i>Particle and Particle Systems Characterization</i> , 2018, 36, 1800350.	2.3	3
90	Raman Spectroscopy of Anisotropic Two-Dimensional Materials. <i>Springer Series in Materials Science</i> , 2019, , 53-80.	0.6	3

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91	Twist-Induced New Phonon Scattering Pathways in Bilayer Graphene Probed by Helicity-Resolved Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2022, 126, 10487-10493.	3.1	3
92	Optical manipulation of plasmonic nanoparticles using laser tweezers. , 2010, , .		2
93	Abnormal intensity and polarization of Raman scattered light at edges of layered MoS <sub>2</sub> . <i>Nano Research</i> , 2022, 15, 6416-6421.	10.4	2
94	Research progress in surface-plasmon-induced optical force. <i>Scientia Sinica: Physica, Mechanica Et Astronomica</i> , 2014, 44, 1127-1139.	0.4	1
95	Monitoring Strain-Controlled Exciton-Phonon Coupling in Layered MoS <sub>2</sub> by Circularly Polarized Light. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 11555-11562.	4.6	1
96	Highly Efficient Photothermal Conversion and Water Transport during Solar Evaporation Enabled by Amorphous Hollow Multishelled Nanocomposites ( <i>Adv. Mater.</i> 7/2022). <i>Advanced Materials</i> , 2022, 34, .	21.0	1
97	Laser Manipulation of Plasmonic Nanoparticles for SERS and Sensing. , 2012, , 153-167.		0