Lian-Mao Peng

List of Publications by Citations

614 papers	31,431 citations	85 h-index	155 g-index
637 ext. papers	35,534 ext. citations	9.8 avg, IF	7.31 L-index

#	Paper	IF	Citations
614	Microwave Absorption Enhancement and Complex Permittivity and Permeability of Fe Encapsulated within Carbon Nanotubes. *Advanced Materials*, **2004**, 16, 401-405	24	1494
613	CdS quantum dots sensitized TiO2 nanotube-array photoelectrodes. *Journal of the American Chemical Society*, **2008**, 130, 1124-5	16.4	986
612	Repeated growth and bubbling transfer of graphene with millimetre-size single-crystal grains using platinum. *Nature Communications*, **2012**, 3, 699	17.4	884
611	Trititanate Nanotubes Made via a Single Alkali Treatment. *Advanced Materials*, **2002**, 14, 1208-1211	24	755
610	Aharonov-Bohm interference in topological insulator nanoribbons. *Nature Materials*, **2010**, 9, 225-9	27	660
609	Toward clean and crackless transfer of graphene. *ACS Nano*, **2011**, 5, 9144-53	16.7	588
608	Deriving carbon atomic chains from graphene. *Physical Review Letters*, **2009**, 102, 205501	7.4	510
607	Preparation and structure analysis of titanium oxide nanotubes. *Applied Physics Letters*, **2001**, 79, 3702-3704	3.4	508
606	Hierarchical Graphene Foam for Efficient Omnidirectional Solar-Thermal Energy Conversion. *Advanced Materials*, **2017**, 29, 1702590	24	480
605	The structure of trititanate nanotubes. *Acta Crystallographica Section B: Structural Science*, **2002**, 58, 587-93		401
604	Few-layer nanoplates of Bi 2 Se 3 and Bi 2 Te 3 with highly tunable chemical potential. *Nano Letters*, **2010**, 10, 2245-50	11.5	370
603	Scaling carbon nanotube complementary transistors to 5-nm gate lengths. *Science*, **2017**, 355, 271-276	33.3	364
602	Roll-to-Roll Encapsulation of Metal Nanowires between Graphene and Plastic Substrate for High-Performance Flexible Transparent Electrodes. *Nano Letters*, **2015**, 15, 4206-13	11.5	357
601	High electron mobility and quantum oscillations in non-encapsulated ultrathin semiconducting BiOSe. *Nature Nanotechnology*, **2017**, 12, 530-534	28.7	332
600	Ultrafast epitaxial growth of metre-sized single-crystal graphene on industrial Cu foil. *Science Bulletin*, **2017**, 62, 1074-1080	10.6	326
599	Formation of bilayer bernal graphene: layer-by-layer epitaxy via chemical vapor deposition. *Nano Letters*, **2011**, 11, 1106-10	11.5	320
598	Out-of-Plane Piezoelectricity and Ferroelectricity in Layered □nSe Nanoflakes. *Nano Letters*, **2017**, 17, 5508-5513	11.5	317

597	Formation mechanism of H2Ti3O7 nanotubes. *Physical Review Letters*, **2003**, 91, 256103	7.4	308
596	CdTe Quantum Dots-Sensitized TiO2 Nanotube Array Photoelectrodes. *Journal of Physical Chemistry C*, **2009**, 113, 7531-7535	3.8	284
595	Doping-Free Fabrication of Carbon Nanotube Based Ballistic CMOS Devices and Circuits. *Nano Letters*, **2007**, 7, 3603-3607	11.5	278
594	Large-area synthesis of high-quality and uniform monolayer WS2 on reusable Au foils. *Nature Communications*, **2015**, 6, 8569	17.4	273
593	Two-Dimensional (CHNH)PbBr Perovskite Crystals for High-Performance Photodetector. *Journal of the American Chemical Society*, **2016**, 138, 16612-16615	16.4	273
592	Topological insulator nanostructures for near-infrared transparent flexible electrodes. *Nature Chemistry*, **2012**, 4, 281-6	17.6	270
591	Topological insulator nanowires and nanoribbons. *Nano Letters*, **2010**, 10, 329-33	11.5	263
590	Quantitative Analysis of Current–Voltage Characteristics of Semiconducting Nanowires: Decoupling of Contact Effects. *Advanced Functional Materials*, **2007**, 17, 2478-2489	15.6	256
589	Machine-Washable Textile Triboelectric Nanogenerators for Effective Human Respiratory Monitoring through Loom Weaving of Metallic Yarns. *Advanced Materials*, **2016**, 28, 10267-10274	24	246
588	Room-temperature synthesis in acidic media of large-pore three-dimensional bicontinuous mesoporous silica with Ia3d symmetry. *Angewandte Chemie - International Edition*, **2002**, 41, 3876-8	16.4	244
587	Synthesis challenges for graphene industry. *Nature Materials*, **2019**, 18, 520-524	27	217
586	Carbon nanotube electronics: recent advances. *Materials Today*, **2014**, 17, 433-442	21.8	215
585	Roll-to-Roll Green Transfer of CVD Graphene onto Plastic for a Transparent and Flexible Triboelectric Nanogenerator. *Advanced Materials*, **2015**, 27, 5210-6	24	215
584	Vertical Graphene Growth on SiO Microparticles for Stable Lithium Ion Battery Anodes. *Nano Letters*, **2017**, 17, 3681-3687	11.5	185
583	Organohalide lead perovskite based photodetectors with much enhanced performance. *Chemical Communications*, **2014**, 50, 13695-7	5.8	176
582	Direct growth of large-area graphene and boron nitride heterostructures by a co-segregation method. *Nature Communications*, **2015**, 6, 6519	17.4	173
581	Controlled synthesis of single-crystal SnSe nanoplates. *Nano Research*, **2015**, 8, 288-295	10	170
580	An Efficient Method To Form Heterojunction CdS/TiO2 Photoelectrodes Using Highly Ordered TiO2 Nanotube Array Films. *Journal of Physical Chemistry C*, **2009**, 113, 20481-20485	3.8	169

579	Bridging the Gap between Reality and Ideal in Chemical Vapor Deposition Growth of Graphene. *Chemical Reviews*, **2018**, 118, 9281-9343	68.1	160
578	Self-retracting motion of graphite microflakes. *Physical Review Letters*, **2008**, 100, 067205	7.4	157
577	Synthesis of Hierarchical Graphdiyne-Based Architecture for Efficient Solar Steam Generation. *Chemistry of Materials*, **2017**, 29, 5777-5781	9.6	155
576	Designed CVD growth of graphene via process engineering. *Accounts of Chemical Research*, **2013**, 46, 2263-74	24.3	152
575	Synthesis and phase transformation of In(2)Se(3) and CuInSe(2) nanowires. *Journal of the American Chemical Society*, **2007**, 129, 34-5	16.4	151
574	Fabrication and Electrical and Mechanical Properties of Carbon Nanotube Interconnections. *Advanced Functional Materials*, **2005**, 15, 1825-1831	15.6	151
573	Debye□Waller Factors and Absorptive Scattering Factors of Elemental Crystals. *Acta Crystallographica Section A: Foundations and Advances*, **1996**, 52, 456-470		151
572	Dirac-source field-effect transistors as energy-efficient, high-performance electronic switches. *Science*, **2018**, 361, 387-392	33.3	146
571	Controlled Synthesis of High-Mobility Atomically Thin Bismuth Oxyselenide Crystals. *Nano Letters*, **2017**, 17, 3021-3026	11.5	145
570	Superlubricity between MoS Monolayers. *Advanced Materials*, **2017**, 29, 1701474	24	138
569	Aligned, high-density semiconducting carbon nanotube arrays for high-performance electronics. *Science*, **2020**, 368, 850-856	33.3	136
568	Shape Evolution of Layer-Structured Bismuth Oxychloride Nanostructures via Low-Temperature Chemical Vapor Transport. *Chemistry of Materials*, **2009**, 21, 247-252	9.6	136
567	Ultrafast and highly sensitive infrared photodetectors based on two-dimensional oxyselenide crystals. *Nature Communications*, **2018**, 9, 3311	17.4	135
566	Patterning two-dimensional chalcogenide crystals of Bi2Se3 and In2Se3 and efficient photodetectors. *Nature Communications*, **2015**, 6, 6972	17.4	133
565	Y-contacted high-performance n-type single-walled carbon nanotube field-effect transistors: scaling and comparison with Sc-contacted devices. *Nano Letters*, **2009**, 9, 4209-14	11.5	133
564	Stability of carbon nanotubes: how small can they be?. *Physical Review Letters*, **2000**, 85, 3249-52	7.4	133
563	Self-aligned ballistic n-type single-walled carbon nanotube field-effect transistors with adjustable threshold voltage. *Nano Letters*, **2008**, 8, 3696-701	11.5	132
562	High-performance sub-10 nm monolayer BiOSe transistors. *Nanoscale*, **2019**, 11, 532-540	7.7	128

561	Robust Parameterization of Elastic and Absorptive Electron Atomic Scattering Factors. *Acta Crystallographica Section A: Foundations and Advances*, **1996**, 52, 257-276		124
560	Toward Mass Production of CVD Graphene Films. *Advanced Materials*, **2019**, 31, e1800996	24	123
559	High-quality ultralong Bi2S3 nanowires: structure, growth, and properties. *Journal of Physical Chemistry B*, **2005**, 109, 18772-6	3.4	122
558	CMOS-based carbon nanotube pass-transistor logic integrated circuits. *Nature Communications*, **2012**, 3, 677	17.4	119
557	Growth and performance of yttrium oxide as an ideal high-kappa gate dielectric for carbon-based electronics. *Nano Letters*, **2010**, 10, 2024-30	11.5	116
556	Quantum capacitance limited vertical scaling of graphene field-effect transistor. *ACS Nano*, **2011**, 5, 2340-7	16.7	115
555	Parameterization of the temperature dependence of the Debye-Waller factors. *Acta Crystallographica Section A: Foundations and Advances*, **1999**, 55, 926-932		115
554	Superheating and melting-point depression of Pb nanoparticles embedded in Al matrices. *Philosophical Magazine Letters*, **1996**, 73, 179-186	1	115
553	Wrinkle-Free Single-Crystal Graphene Wafer Grown on Strain-Engineered Substrates. *ACS Nano*, **2017**, 11, 12337-12345	16.7	112
552	Surface Monocrystallization of Copper Foil for Fast Growth of Large Single-Crystal Graphene under Free Molecular Flow. *Advanced Materials*, **2016**, 28, 8968-8974	24	110
551	Optical and Electrical Performance of SnO2Capped ZnO Nanowire Arrays. *Nano Letters*, **2007**, 7, 3559-3563	11.5	110
550	Dynamical diffraction calculations for RHEED and REM. *Acta Crystallographica Section A: Foundations and Advances*, **1986**, 42, 545-552		110
549	Efficient photovoltage multiplication in carbon nanotubes. *Nature Photonics*, **2011**, 5, 672-676	33.9	104
548	A high-performance top-gate graphene field-effect transistor based frequency doubler. *Applied Physics Letters*, **2010**, 96, 173104	3.4	103
547	Electronic structures and unusually robust bandgap in an ultrahigh-mobility layered oxide semiconductor, BiOSe. *Science Advances*, **2018**, 4, eaat8355	14.3	103
546	Chemical Patterning of High-Mobility Semiconducting 2D Bi O Se Crystals for Integrated Optoelectronic Devices. *Advanced Materials*, **2017**, 29, 1704060	24	101
545	High-quality ultralong Sb2Se3 and Sb2S3 nanoribbons on a large scale via a simple chemical route. *Journal of Physical Chemistry B*, **2006**, 110, 13415-9	3.4	101
544	Amphoteric and controllable doping of carbon nanotubes by encapsulation of organic and organometallic molecules. *Physical Review Letters*, **2004**, 93, 116804	7.4	100

543	High-Performance Complementary Transistors and Medium-Scale Integrated Circuits Based on Carbon Nanotube Thin Films. *ACS Nano*, **2017**, 11, 4124-4132	16.7	97
542	Creating one-dimensional nanoscale periodic ripples in a continuous mosaic graphene monolayer. *Physical Review Letters*, **2014**, 113, 086102	7.4	97
541	Large anisotropy of electrical properties in layer-structured In2Se3 nanowires. *Nano Letters*, **2008**, 8, 1511-6	11.5	96
540	Growth of high-density horizontally aligned SWNT arrays using Trojan catalysts. *Nature Communications*, **2015**, 6, 6099	17.4	94
539	Ultraviolet/ozone treatment to reduce metal-graphene contact resistance. *Applied Physics Letters*, **2013**, 102, 183110	3.4	94
538	Individual Bi2S3 Nanowire-Based Room-Temperature H2 Sensor. *Journal of Physical Chemistry C*, **2008**, 112, 8721-8724	3.8	94
537	Hydrothermal synthesis of organometal halide perovskites for Li-ion batteries. *Chemical Communications*, **2015**, 51, 13787-90	5.8	92
536	Towards super-clean graphene. *Nature Communications*, **2019**, 10, 1912	17.4	89
535	Selectively enhanced photocurrent generation in twisted bilayer graphene with van Hove singularity. *Nature Communications*, **2016**, 7, 10699	17.4	88
534	Broadband optical properties of large-area monolayer CVD molybdenum disulfide. *Physical Review B*, **2014**, 90,	3.3	88
533	Correlations in space and time and dynamical diffraction of high-energy electrons by crystals. *Physical Review B*, **1993**, 48, 13408-13429	3.3	88
532	Repeated growth-etching-regrowth for large-area defect-free single-crystal graphene by chemical vapor deposition. *ACS Nano*, **2014**, 8, 12806-13	16.7	87
531	Top-gated graphene field-effect transistors with high normalized transconductance and designable dirac point voltage. *ACS Nano*, **2011**, 5, 5031-7	16.7	87
530	Greatly Enhanced Anticorrosion of Cu by Commensurate Graphene Coating. *Advanced Materials*, **2018**, 30, 1702944	24	85
529	Gigahertz integrated circuits based on carbon nanotube films. *Nature Electronics*, **2018**, 1, 40-45	28.4	85
528	Structure and applications of titanate and related nanostructures. *International Journal of Nanotechnology*, **2007**, 4, 44	1.5	84
527	Highly Uniform Carbon Nanotube Field-Effect Transistors and Medium Scale Integrated Circuits. *Nano Letters*, **2016**, 16, 5120-8	11.5	84
526	Almost perfectly symmetric SWCNT-based CMOS devices and scaling. *ACS Nano*, **2009**, 3, 3781-7	16.7	83

525	Nanoscale Electronic Inhomogeneity in In2Se3 Nanoribbons Revealed by Microwave Impedance Microscopy. *Nano Letters*, **2009**, 9, 1265-9	11.5	82
524	Electron atomic scattering factors and scattering potentials of crystals. *Micron*, **1999**, 30, 625-648	2.3	82
523	High-performance carbon nanotube light-emitting diodes with asymmetric contacts. *Nano Letters*, **2011**, 11, 23-9	11.5	81
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521	Room Temperature Broadband Infrared Carbon Nanotube Photodetector with High Detectivity and Stability. *Advanced Optical Materials*, **2016**, 4, 238-245	8.1	78
520	Surface Engineering of Copper Foils for Growing Centimeter-Sized Single-Crystalline Graphene. *ACS Nano*, **2016**, 10, 2922-9	16.7	78
519	Carbon nanotube photoelectronic and photovoltaic devices and their applications in infrared detection. *Small*, **2013**, 9, 1225-36	11	76
518	Establishing Ohmic contacts for in situ current-voltage characteristic measurements on a carbon nanotube inside the scanning electron microscope. *Nanotechnology*, **2006**, 17, 1087-98	3.4	75
517	Tunable, Ultrasensitive, and Flexible Pressure Sensors Based on Wrinkled Microstructures for Electronic Skins. *ACS Applied Materials & Interfaces*, **2019**, 11, 21218-21226	9.5	74
516	Measurements and microscopic model of quantum capacitance in graphene. *Applied Physics Letters*, **2011**, 98, 133122	3.4	74
515	Ordered Vacancy Compounds and Nanotube Formation in CuInSe2−xSx Core−Shell Nanowires. *Nano Letters*, **2007**, 7, 3734-3738	11.5	73
514	Growing three-dimensional biomorphic graphene powders using naturally abundant diatomite templates towards high solution processability. *Nature Communications*, **2016**, 7, 13440	17.4	71
513	Morphology control of layer-structured gallium selenide nanowires. *Nano Letters*, **2007**, 7, 199-203	11.5	71
512	Tip cooling effect and failure mechanism of field-emitting carbon nanotubes. *Nano Letters*, **2007**, 7, 64-8	11.5	70
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510	Interlayer vibrational modes in few-quintuple-layer Bi2Te3 and Bi2Se3 two-dimensional crystals: Raman spectroscopy and first-principles studies. *Physical Review B*, **2014**, 90,	3.3	68
509	Electron field emission characteristics and field evaporation of a single carbon nanotube. *Journal of Physical Chemistry B*, **2005**, 109, 110-3	3.4	68
508	Thickness-Dependent Dielectric Constant of Few-Layer In2Se3 Nanoflakes. *Nano Letters*, **2015**, 15, 8136-40	11.5	67

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504	Realization of low contact resistance close to theoretical limit in graphene transistors. *Nano Research*, **2015**, 8, 1669-1679	10	65
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502	Truly Concomitant and Independently Expressed Short- and Long-Term Plasticity in a Bi O Se-Based Three-Terminal Memristor. *Advanced Materials*, **2019**, 31, e1805769	24	62
501	Low-Temperature Heteroepitaxy of 2D PbI /Graphene for Large-Area Flexible Photodetectors. *Advanced Materials*, **2018**, 30, e1803194	24	61
500	Batch-fabricated high-performance graphene Hall elements. *Scientific Reports*, **2013**, 3, 1207	4.9	61
499	Reversible switching on superhydrophobic TiO2 nano-strawberry films fabricated at low temperature. *Chemical Communications*, **2008**, 603-5	5.8	61
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495	Controlling Molecular Growth between Fractals and Crystals on Surfaces. *ACS Nano*, **2015**, 9, 11909-15	16.7	58
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490	Synthesis, modification and characterization of K4Nb6O17-type nanotubes. *Journal of Materials Chemistry*, **2004**, 14, 1437		58

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485	In-situ studies of electron field emission of single carbon nanotubes inside the TEM. *Carbon*, **2005**, 43, 1026-1031	10.4	57
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481	Low Residual Carrier Concentration and High Mobility in 2D Semiconducting BiOSe. *Nano Letters*, **2019**, 19, 197-202	11.5	56
480	Revealing the Contribution of Individual Factors to Hydrogen Evolution Reaction Catalytic Activity. *Advanced Materials*, **2018**, 30, e1706076	24	54
479	Graphene-Armored Aluminum Foil with Enhanced Anticorrosion Performance as Current Collectors for Lithium-Ion Battery. *Advanced Materials*, **2017**, 29, 1703882	24	53
478	Switching Vertical to Horizontal Graphene Growth Using Faraday Cage-Assisted PECVD Approach for High-Performance Transparent Heating Device. *Advanced Materials*, **2018**, 30, 1704839	24	53
477	ZnSe Nanobelts and Nanowires Synthesized by a Closed Space Vapor Transport Technique. *Journal of Physical Chemistry C*, **2007**, 111, 2987-2991	3.8	53
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475	Monodisperse Copper Chalcogenide Nanocrystals: Controllable Synthesis and the Pinning of Plasmonic Resonance Absorption. *Journal of the American Chemical Society*, **2015**, 137, 12006-12	16.4	52
474	Rapid Growth of Large Single-Crystalline Graphene via Second Passivation and Multistage Carbon Supply. *Advanced Materials*, **2016**, 28, 4671-7	24	52
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471	A very low temperature single crystal germanium growth process on insulating substrate using Ni-induced lateral crystallization for three-dimensional integrated circuits. *Applied Physics Letters*, **2007**, 91, 143107	3.4	52
470	High-quality ultralong Sb2S3 nanoribbons on large scale. *Journal of Physical Chemistry B*, **2005**, 109, 2331-2345	3.4	52
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465	Engineering the cap structure of individual carbon nanotubes and corresponding electron field emission characteristics. *Applied Physics Letters*, **2006**, 88, 243108	3.4	50
464	Optical and Electrical Properties of Ga-Doped ZnO Nanowire Arrays on Conducting Substrates. *Journal of Physical Chemistry C*, **2009**, 113, 8945-8947	3.8	49
463	Large-Scale and Rapid Synthesis of Ultralong ZnO Nanowire Films via Anodization. *Journal of Physical Chemistry C*, **2010**, 114, 881-889	3.8	48
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447	Large-area chemical vapor deposition-grown monolayer graphene-wrapped silver nanowires for broad-spectrum and robust antimicrobial coating. *Nano Research*, **2016**, 9, 963-973	10	44
446	Early Lithium Plating Behavior in Confined Nanospace of 3D Lithiophilic Carbon Matrix for Stable Solid-State Lithium Metal Batteries. *Small*, **2019**, 15, e1904216	11	44
445	Scalable Preparation of High-Density Semiconducting Carbon Nanotube Arrays for High-Performance Field-Effect Transistors. *ACS Nano*, **2018**, 12, 627-634	16.7	43
444	Isotropic Growth of Graphene toward Smoothing Stitching. *ACS Nano*, **2016**, 10, 7189-96	16.7	43
443	Large-Area Synthesis of Superclean Graphene via Selective Etching of Amorphous Carbon with Carbon Dioxide. *Angewandte Chemie - International Edition*, **2019**, 58, 14446-14451	16.4	43
442	Helicity-dependent single-walled carbon nanotube alignment on graphite for helical angle and handedness recognition. *Nature Communications*, **2013**, 4, 2205	17.4	43
441	Quantitative Fitting of Nonlinear Current–Voltage Curves and Parameter Retrieval of Semiconducting Nanowire, Nanotube and Nanoribbon Devices. *Journal of Nanoscience and Nanotechnology*, **2008**, 8, 252-258	1.3	43
440	Wafer-Scale Uniform Carbon Nanotube Transistors for Ultrasensitive and Label-Free Detection of Disease Biomarkers. *ACS Nano*, **2020**, 14, 8866-8874	16.7	42
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