RESEARCH & PUBLICATIONS

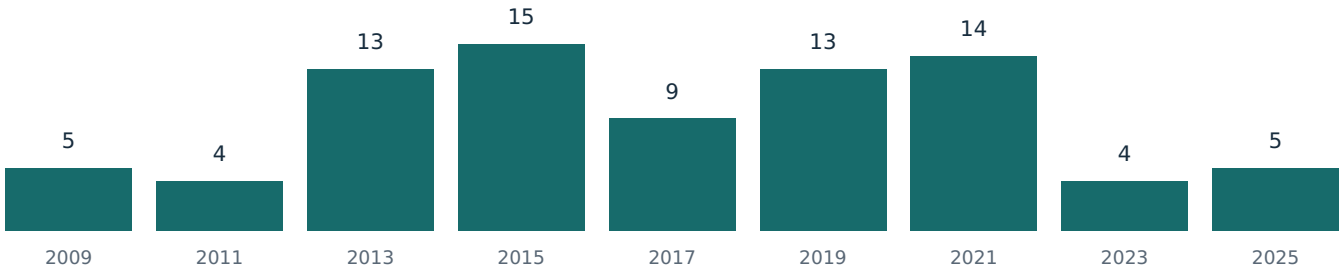
Qiang Li

A publication record at a glance

82	5,122	36
ARTICLES	CITATIONS	h-INDEX

PUBLICATION ACTIVITY

Articles grouped into 2-year periods



MOST CITED IN THIS LIST

Toward Intrinsic Graphene Surfaces: A Systematic Study on Thermal Annealing and Wet-Chemical Treatment of SiO2-Supported Graphene Devices — 509

2011 Nano Letters

Graphene and Nanowire Transistors for Cellular Interfaces and Electrical Recording — 388

2010 Nano Letters

Facile Synthesis of Single Crystal PtSe2 Nanosheets for Nanoscale Electronics — 347

2016 Advanced Materials

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Ordered by publication year, newest first

2025

01 **Boosting Electrocatalytic Hydrogen Evolution via Partial Oxidation of Rhenium Through Cobalt Modification in Nanoalloy Structure**
Journal of Colloid and Interface Science · 677, 617-625
https://exaly.com/article/188265018
5 citations

02 **Current-Carrying Friction of Atomically Thin Molybdenum Disulfide**
Applied Surface Science · 685, 162021
https://exaly.com/article/195425411
10 citations

03 **Helical Assemblies of Colloidal Nanocrystals With Long-Range Order and Their Fusion Into Continuous Structures**
Journal of the American Chemical Society · 147, 1803-1812
https://exaly.com/article/196448185
9 citations

04 **Controlled Writhing of Chiral Matter in Deformable Droplet Confinement**
Journal of the American Chemical Society · 147, 22901-22910
https://exaly.com/article/201945597
9 citations

05 **Single-Atom Iron Nanozyme With Oxidase-Like Activity for Ultrasensitive Polyphenol Detection**
Nanoscale · 17, 25036-25043
https://exaly.com/article/205195477
7 citations

2024

06 **Insight Into the Hydration Friction of Lipid Bilayers**
Nanoscale · 16, 2402-2408
https://exaly.com/article/175006465
9 citations

07 **Curcumin Mitigates Aβ33-42 Fibril-Induced Neuronal Injury in the Hippocampus**
Materials Today Physics · 44, 101436
https://exaly.com/article/184656644
2 citations

08 **Anisotropic Etching of 2D Layered Materials**
ChemPhysMater · 3, 341-356
https://exaly.com/article/188166338
5 citations

2023

09 **Liquid-Phase Friction of Two-Dimensional Molybdenum Disulfide at the Atomic Scale**
ACS Applied Materials & Interfaces · 15, 21595-21601
https://exaly.com/article/162414453
20 citations

Ordered by publication year, newest first

2022

10 **Origin of Friction Hysteresis on Monolayer Graphene** — 31 citations
Friction · 10, 573-582
https://exaly.com/article/81942052

11 **Probing the Hydration Friction of Ionic Interfaces at the Atomic Scale** — 30 citations
Nanoscale Horizons · 7, 368-375
https://exaly.com/article/125462618

12 **Nanoscale Friction of Strained Molybdenum Disulfide Induced by Nanoblisters** — 9 citations
Applied Physics Letters
https://exaly.com/article/135986830

13 **Nontoxic Silicene Photothermal Agents With High Near-Infrared Absorption for Disassembly of Alzheimer's Amyloid-β Fibrils** — 15 citations
Colloids and Surfaces B: Biointerfaces · 216, 112575
https://exaly.com/article/145472754

14 **Friction Behaviors of Two-Dimensional Materials at the Nanoscale** — 66 citations
Materials Today Physics · 27, 100771
https://exaly.com/article/149151229

15 **Engineering Poly(Ethylene Glycol) Nanoparticles for Accelerated Blood Clearance Inhibition and Targeted Drug Delivery** — 153 citations
Journal of the American Chemical Society · 144, 18419-18428
https://exaly.com/article/154841375

2021

16 **An Efficient Ruthenium-Based Dual-Electrocatalyst Towards Hydrogen Evolution and Oxygen Reduction Reactions** — 24 citations
Materials Today Physics · 16, 100300
https://exaly.com/article/77815984

17 **Identification of a Potent Ionizable Lipid for Efficient Macrophage Transfection and Systemic Anti-Interleukin-1β siRNA Delivery Against Acute Liver Failure** — 23 citations
Journal of Materials Chemistry B · 9, 5136-5149
https://exaly.com/article/78264043

18 **Editorial: Material Surfaces and Interfaces at the Nanoscale: From Theory to Application** — 2 citations
Frontiers in Chemistry · 9, 656661
https://exaly.com/article/79415968

Ordered by publication year, newest first

2021 / continued

19 Incorporating Photochromic Triphenylamine Into a Zirconium–Organic Framework for Highly Effective Photocatalytic Aerobic Oxidation of Sulfides
100 citations
ACS Applied Materials & Interfaces · 13, 20137-20144
https://exaly.com/article/80212889

20 Atomic-Scale Friction of Black and Violet Phosphorus Crystals: Implications for Phosphorus-Based Devices and Lubricants
30 citations
ACS Applied Nano Materials · 4, 9932-9937
https://exaly.com/article/82321853

21 Boosting Ionizable Lipid Nanoparticle-Mediated in Vivo mRNA Delivery Through Optimization of Lipid Amine-Head Groups
36 citations
Biomaterials Science · 9, 7534-7546
https://exaly.com/article/82740035

22 Alteration of Nanomechanical Properties of Pancreatic Cancer Cells Through Anticancer Drug Treatment Revealed by Atomic Force Microscopy
5 citations
Beilstein Journal of Nanotechnology · 12, 1372-1379
https://exaly.com/article/135306032

23 Intermetallic Rhodium Alloy Nanoparticles for Electrocatalysis
23 citations
ACS Applied Nano Materials · 4, 13716-13723
https://exaly.com/article/135579963

2020

24 Direct Synthesis of Bifunctional Nanorods From a Co–Adenine–MoO3 Hybrid for Overall Water Splitting
20 citations
Materials Chemistry Frontiers · 4, 546-554
https://exaly.com/article/75265352

25 Porous Coordination Polymer-Derived Ultrasmall CoP Encapsulated in Nitrogen-Doped Carbon for Efficient Hydrogen Evolution in Both Acidic and Basic Media
14 citations
International Journal of Hydrogen Energy · 45, 1729-1737
https://exaly.com/article/75309026

26 Reversing Interfacial Catalysis of Ambipolar WSe2 Single Crystal
121 citations
Advanced Science · 7, 1901382
https://exaly.com/article/75333692

27 Flexible and Green Electronics Manufactured by Origami Folding of Nanosilicate-Reinforced Cellulose Paper
35 citations
ACS Applied Materials & Interfaces · 12, 48027-48039
https://exaly.com/article/75506353

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2020 / continued

28 Efficient Spreading and Controllable Penetration of High-Speed Drops on Superhydrophobic Surface by Vesicles
56 citations
Journal of Materials Chemistry A · 8, 17392-17398
https://exaly.com/article/75993319

29 In Situ Construction of Tandem Nitrogen-Doped MoP Nanocrystals for High-Efficient Electrocatalytic Hydrogen Evolution
18 citations
Electrochimica Acta · 342, 136059
https://exaly.com/article/76921664

30 Folding 2D Graphene Nanoribbons Into 3D Nanocages Induced by Platinum Nanoclusters
5 citations
Journal of Physical Chemistry C · 124, 10495-10501
https://exaly.com/article/76998177

31 Ionic Liquid-Assisted Synthesis of Hierarchical One-Dimensional MoP/NPC for High-Performance Supercapacitor and Electrocatalysis
65 citations
ACS Sustainable Chemistry and Engineering · 8, 6343-6351
https://exaly.com/article/76998300

32 Identification and Nanomechanical Characterization of the HIV Tat-Amyloid β Peptide Multifibrillar Structures
3 citations
Chemistry - A European Journal · 26, 9449-9453
https://exaly.com/article/77016969

2019

33 Interfacial Icelike Water Local Doping of Graphene
29 citations
Nanoscale · 11, 19334-19340
https://exaly.com/article/71902771

34 Synthesis of Coordination Polymer Thin Films With Conductance-Response to Mechanical Stimulation
11 citations
Chemical Communications · 55, 2545-2548
https://exaly.com/article/73726177

35 Antifouling and pH-Responsive Poly(Carboxybetaine)-Based Nanoparticles for Tumor Cell Targeting
29 citations
Frontiers in Chemistry · 7, 493362
https://exaly.com/article/74280079

36 Confined Hetero Double Helix Structure Induced by Graphene Nanoribbon
8 citations
2D Materials · 6, 034001
https://exaly.com/article/74780098

Ordered by publication year, newest first

2018

37 Authors' Response to “Mutations in COL1A1 Gene Change Dentin Nanostructure: A Response”
Anatomical Record · 301, 1309-1310
https://exaly.com/article/68908907
0 citations

38 RNA Nanopatterning on Graphene
2D Materials · 5, 031006
https://exaly.com/article/69267313
16 citations

39 Studying the Adhesion Force and Glass Transition of Thin Polystyrene Films by Atomic Force Microscopy.
Nanoscale Research Letters · 13, 5
https://exaly.com/article/69372120
28 citations

40 Self-Scrolling MoS2 Metallic Wires
Nanoscale · 10, 18178-18185
https://exaly.com/article/70961109
101 citations

41 In Vitro Single-Cell Dissection Revealing the Interior Structure of Cable Bacteria
Proceedings of the National Academy of Sciences of the United States of America · 115, 8517-8522
https://exaly.com/article/71296087
58 citations

42 The Ambipolar Transport Behavior of WSe2 Transistors and Its Analogue Circuits
NPG Asia Materials · 10, 703-712
https://exaly.com/article/71359696
198 citations

2017

43 In Situ Probing the Relaxation Properties of Ultrathin Polystyrene Films by Using Electric Force Microscopy
Nanoscale Research Letters · 12, 257
https://exaly.com/article/66340875
7 citations

44 Extracting the Inner Wall From Nested Double-Walled Carbon Nanotube by Platinum Nanowire: Molecular Dynamics Simulations
RSC Advances · 7, 39480-39489
https://exaly.com/article/67303540
10 citations

45 Direct Mapping of Chemical Oxidation of Individual Graphene Sheets Through Dynamic Force Measurements at the Nanoscale
Nanoscale · 9, 119-127
https://exaly.com/article/67731918
24 citations

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2016

46 **Biomimetic Cardiovascular Stents for in Vivo Re-Endothelialization** — 109 citations
Biomaterials · 103, 170-182
https://exaly.com/article/63364860

47 **The Ultrastructures and Mechanical Properties of the Descement's Membrane in Fuchs Endothelial Corneal Dystrophy** — 46 citations
Scientific Reports · 6, 1-7
https://exaly.com/article/63675309

48 **Controlled Synthesis of High-Quality Crystals of Monolayer MoS2 for Nanoelectronic Device Application** — 57 citations
Science China Materials · 59, 182-190
https://exaly.com/article/64023121

49 **Facile Synthesis of Single Crystal PtSe2 Nanosheets for Nanoscale Electronics** — 347 citations
Advanced Materials · 28, 10224-10229
https://exaly.com/article/64339111

50 **Identification of a Novel Parallel β-Strand Conformation Within Molecular Monolayer of Amyloid Peptide** — 32 citations
Advanced Science · 3, 1500369
https://exaly.com/article/64435396

51 **Enhancing Photoresponsivity of Self-Aligned MoS2 Field-Effect Transistors by Piezo-Phototronic Effect From GaN Nanowires** — 104 citations
ACS Nano · 10, 7451-7
https://exaly.com/article/64634990

52 **Magnetic Properties of Strontium Hexaferrite Nanostructures Measured With Magnetic Force Microscopy** — 41 citations
Scientific Reports · 6, 1-7
https://exaly.com/article/64806014

53 **Super Flexibility and Stability of Graphene Nanoribbons Under Severe Twist** — 28 citations
Physical Chemistry Chemical Physics · 18, 18406-18413
https://exaly.com/article/65108139

54 **Mutations in COL1A1 Gene Change Dentin Nanostructure** — 13 citations
Anatomical Record · 299, 511-519
https://exaly.com/article/65301008

55 **Synergistic Inhibitory Effect of Peptide–Organic Coassemblies on Amyloid Aggregation** — 51 citations
ACS Nano · 10, 4143-53
https://exaly.com/article/65416768

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2016 / continued

56 **Improved Performance of SrFe12O19 Bulk Magnets Through Bottom-Up Nanostructuring** — 56 citations
Nanoscale · 8, 2857-2866
https://exaly.com/article/65656535

2015

57 **Size Effect of Graphene Oxide on Modulating Amyloid Peptide Assembly** — 66 citations
Chemistry - A European Journal · 21, 9632-9637
https://exaly.com/article/60752177

58 **Two-Dimensional Material Confined Water** — 171 citations
Accounts of Chemical Research · 48, 119-27
https://exaly.com/article/61631947

59 **Dental Abnormalities Caused by Novel Compound Heterozygous CTSK Mutations** — 27 citations
Journal of Dental Research · 94, 674-81
https://exaly.com/article/62193552

60 **Routing of Individual Polymers in Designed Patterns** — 194 citations
Nature Nanotechnology · 10, 892-898
https://exaly.com/article/62622175

2014

61 **Controlled Construction of Nanostructures in Graphene** — 4 citations
Chinese Physics B · 23, 028102
https://exaly.com/article/57728804

62 **Modulating Aβ33–42 Peptide Assembly by Graphene Oxide** — 74 citations
Chemistry - A European Journal · 20, 7236-7240
https://exaly.com/article/58202643

63 **One Dimensional BaxSr1 – xEryFe12 – yO19 Fibers With Magnetic Crystalline Nanoparticles** — 6 citations
Materials Research Express · 1, 036106
https://exaly.com/article/58510485

64 **Transition of Chemically Modified Diphenylalanine Peptide Assemblies Revealed by Atomic Force Microscopy** — 15 citations
RSC Advances · 4, 7516-7520
https://exaly.com/article/58819818

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2014 / continued

65 Pyridyne Cycloaddition of Graphene: “External” Active Sites for Oxygen Reduction Reaction — 36 citations
Journal of Materials Chemistry A · 2, 897-901
https://exaly.com/article/58979412

66 Switchable Supramolecular Assemblies on Graphene — 35 citations
Nanoscale · 6, 8387-8391
https://exaly.com/article/59159744

67 A High Efficiency H2S Gas Sensor Material: Paper Like Fe2O3/Graphene Nanosheets and Structural Alignment Dependency of Device Efficiency — 96 citations
Journal of Materials Chemistry A · 2, 6714-6717
https://exaly.com/article/59199318

68 Hydrated Human Corneal Stroma Revealed by Quantitative Dynamic Atomic Force Microscopy at Nanoscale — 51 citations
ACS Nano · 8, 6873-82
https://exaly.com/article/59260588

69 Evidence of Stranski–Krastanov Growth at the Initial Stage of Atmospheric Water Condensation — 88 citations
Nature Communications · 5, 1-8
https://exaly.com/article/59554537

2013

70 Quantification of the Interaction Forces Between Metals and Graphene by Quantum Chemical Calculations and Dynamic Force Measurements Under Ambient Conditions — 81 citations
ACS Nano · 7, 1646-51
https://exaly.com/article/55869705

71 Mechanical Reinforcement Fibers Produced by Gel-Spinning of Poly-Acrylic Acid (PAA) and Graphene Oxide (GO) Composites — 43 citations
Nanoscale · 5, 6265-6269
https://exaly.com/article/55965297

72 Isothermal Hybridization Kinetics of DNA Assembly of Two-Dimensional DNA Origami — 39 citations
Small · 9, 2954-2959
https://exaly.com/article/56687917

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2013 / continued

73 Facilitating the Mechanical Properties of a High-Performance pH-Sensitive Membrane by Cross-Linking Graphene Oxide and Polyacrylic Acid

Nanotechnology · 24, 335704

https://exaly.com/article/85295081

15 citations

2012

74 CO Oxidation Over Graphene Supported Palladium Catalyst

Applied Catalysis B: Environmental · 125, 189-196

https://exaly.com/article/53590549

219 citations

75 Direct Force Producing Uniform Ultra-Thin Chitosan Films by Atomic Force Microscopy

RSC Advances · 2, 2732-2735

https://exaly.com/article/53747972

6 citations

2011

76 Toward Intrinsic Graphene Surfaces: A Systematic Study on Thermal Annealing and Wet-Chemical Treatment of SiO2-Supported Graphene Devices

Nano Letters · 11, 767-71

https://exaly.com/article/51202893

509 citations

77 Direct Electrospinning of Ag/Polyvinylpyrrolidone Nanocables

Nanoscale · 3, 4966-4971

https://exaly.com/article/51247732

77 citations

2010

78 Suspended Graphene Sensors With Improved Signal and Reduced Noise

Nano Letters · 10, 1864-8

https://exaly.com/article/47806695

299 citations

79 Generating Electricity From Biofluid With a Nanowire-Based Biofuel Cell for Self-Powered Nanodevices

Advanced Materials · 22, 5388-5392

https://exaly.com/article/48118758

109 citations

80 Graphene and Nanowire Transistors for Cellular Interfaces and Electrical Recording

Nano Letters · 10, 1098-102

https://exaly.com/article/49461286

388 citations

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2009

81 **Real-Time Study of Graphene's Phase Transition in Polymer Matrices** — 51 citations

Nano Letters · 9, 2129-32

https://exaly.com/article/46901032

82 **Spontaneous Formation of Nanostructures in Graphene** — 60 citations

Nano Letters · 9, 3599-602

https://exaly.com/article/47152251

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