Qiang Li

List of Publications by Year in descending order

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76	4,307	136950 32	106344 65
papers	citations	h-index	g-index

76	76	76	8107
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Toward Intrinsic Graphene Surfaces: A Systematic Study on Thermal Annealing and Wet-Chemical Treatment of SiO₂-Supported Graphene Devices. Nano Letters, 2011, 11, 767-771.	9.1	461
2	Graphene and Nanowire Transistors for Cellular Interfaces and Electrical Recording. Nano Letters, 2010, 10, 1098-1102.	9.1	365
3	Facile Synthesis of Single Crystal PtSe₂ Nanosheets for Nanoscale Electronics. Advanced Materials, 2016, 28, 10224-10229.	21.0	286
4	Suspended Graphene Sensors with Improved Signal and Reduced Noise. Nano Letters, 2010, 10, 1864-1868.	9.1	280
5	Controllable etching of MoS2 basal planes for enhanced hydrogen evolution through the formation of active edge sites. Nano Energy, 2018, 49, 634-643.	16.0	220
6	CO oxidation over graphene supported palladium catalyst. Applied Catalysis B: Environmental, 2012, 125, 189-196.	20.2	211
7	Routing of individual polymers in designed patterns. Nature Nanotechnology, 2015, 10, 892-898.	31.5	189
8	Two-Dimensional Material Confined Water. Accounts of Chemical Research, 2015, 48, 119-127.	15.6	140
9	The ambipolar transport behavior of WSe2 transistors and its analogue circuits. NPG Asia Materials, 2018, 10, 703-712.	7.9	124
10	Reversing Interfacial Catalysis of Ambipolar WSe₂ Single Crystal. Advanced Science, 2020, 7, 1901382.	11.2	100
11	Generating Electricity from Biofluid with a Nanowireâ€Based Biofuel Cell for Selfâ€Powered Nanodevices. Advanced Materials, 2010, 22, 5388-5392.	21.0	99
12	A high efficiency H₂S gas sensor material: paper like Fe₂O₃/graphene nanosheets and structural alignment dependency of device efficiency. Journal of Materials Chemistry A, 2014, 2, 6714-6717.	10.3	87
13	Biomimetic cardiovascular stents for inÂvivo re-endothelialization. Biomaterials, 2016, 103, 170-182.	11.4	86
14	Enhancing Photoresponsivity of Self-Aligned MoS₂ Field-Effect Transistors by Piezo-Phototronic Effect from GaN Nanowires. ACS Nano, 2016, 10, 7451-7457.	14.6	86
15	Self-scrolling MoS₂ metallic wires. Nanoscale, 2018, 10, 18178-18185.	5.6	83
16	Direct electrospinning of Ag/polyvinylpyrrolidone nanocables. Nanoscale, 2011, 3, 4966.	5.6	73
17	Quantification of the Interaction Forces between Metals and Graphene by Quantum Chemical Calculations and Dynamic Force Measurements under Ambient Conditions. ACS Nano, 2013, 7, 1646-1651.	14.6	73
18	Modulating AÎ²_{33â€“42} Peptide Assembly by Graphene Oxide. Chemistry - A European Journal, 2014, 20, 7236-7240.	3.3	69

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19	Evidence of Stranskiâ€“Krastanov growth at the initial stage of atmospheric water condensation. Nature Communications, 2014, 5, 4837.	12.8	68
20	Size Effect of Graphene Oxide on Modulating Amyloid Peptide Assembly. Chemistry - A European Journal, 2015, 21, 9632-9637.	3.3	60
21	Spontaneous Formation of Nanostructures in Graphene. Nano Letters, 2009, 9, 3599-3602.	9.1	58
22	Ionic Liquid-Assisted Synthesis of Hierarchical One-Dimensional MoP/NPC for High-Performance Supercapacitor and Electrocatalysis. ACS Sustainable Chemistry and Engineering, 2020, 8, 6343-6351.	6.7	53
23	Controlled synthesis of high-quality crystals of monolayer MoS2 for nanoelectronic device application. Science China Materials, 2016, 59, 182-190.	6.3	51
24	Incorporating Photochromic Triphenylamine into a Zirconiumâ€“Organic Framework for Highly Effective Photocatalytic Aerobic Oxidation of Sulfides. ACS Applied Materials & Interfaces, 2021, 13, 20137-20144.	8.0	50
25	Real-Time Study of Grapheneâ€™s Phase Transition in Polymer Matrices. Nano Letters, 2009, 9, 2129-2132.	9.1	49
26	Synergistic Inhibitory Effect of Peptideâ€“Organic Coassemblies on Amyloid Aggregation. ACS Nano, 2016, 10, 4143-4153.	14.6	47
27	Hydrated Human Corneal Stroma Revealed by Quantitative Dynamic Atomic Force Microscopy at Nanoscale. ACS Nano, 2014, 8, 6873-6882.	14.6	45
28	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, 2018, 115, 8517-8522.	7.1	45
29	Improved performance of SrFe‹sub›12‹/sub›O‹sub›19‹/sub›bulk magnets through bottom-up nanostructuring. Nanoscale, 2016, 8, 2857-2866.	5.6	44
30	Mechanical reinforcement fibers produced by gel-spinning of poly-acrylic acid (PAA) and graphene oxide (GO) composites. Nanoscale, 2013, 5, 6265.	5.6	39
31	Magnetic Properties of Strontium Hexaferrite Nanostructures Measured with Magnetic Force Microscopy. Scientific Reports, 2016, 6, 25985.	3.3	39
32	Pyridyne cycloaddition of graphene: â€œexternalâ€•active sites for oxygen reduction reaction. Journal of Materials Chemistry A, 2014, 2, 897-901.	10.3	33
33	Isothermal Hybridization Kinetics of DNA Assembly of Twoâ€Dimensional DNA Origami. Small, 2013, 9, 2954-2959.	10.0	32
34	Switchable supramolecular assemblies on graphene. Nanoscale, 2014, 6, 8387-8391.	5.6	32
35	The Ultrastructures and Mechanical Properties of the Descementâ€™s Membrane in Fuchs Endothelial Corneal Dystrophy. Scientific Reports, 2016, 6, 23096.	3.3	32
36	Efficient spreading and controllable penetration of high-speed drops on superhydrophobic surface by vesicles. Journal of Materials Chemistry A, 2020, 8, 17392-17398.	10.3	32

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37	Identification of a Novel Parallel Î²â€Strand Conformation within Molecular Monolayer of Amyloid Peptide. Advanced Science, 2016, 3, 1500369.	11.2	31
38	Dental Abnormalities Caused by Novel Compound Heterozygous CTSK Mutations. Journal of Dental Research, 2015, 94, 674-681.	5.2	26
39	Flexible and Green Electronics Manufactured by Origami Folding of Nanosilicate-Reinforced Cellulose Paper. ACS Applied Materials & Interfaces, 2020, 12, 48027-48039.	8.0	24
40	Studying the Adhesion Force and Glass Transition of Thin Polystyrene Films by Atomic Force Microscopy. Nanoscale Research Letters, 2018, 13, 5.	5.7	23
41	Interfacial icelike water local doping of graphene. Nanoscale, 2019, 11, 19334-19340.	5.6	22
42	Super flexibility and stability of graphene nanoribbons under severe twist. Physical Chemistry Chemical Physics, 2016, 18, 18406-18413.	2.8	21
43	Direct mapping of chemical oxidation of individual graphene sheets through dynamic force measurements at the nanoscale. Nanoscale, 2017, 9, 119-127.	5.6	21
44	Boosting ionizable lipid nanoparticle-mediated in vivo mRNA delivery through optimization of lipid amine-head groups. Biomaterials Science, 2021, 9, 7534-7546.	5.4	19
45	Antifouling and pH-Responsive Poly(Carboxybetaine)-Based Nanoparticles for Tumor Cell Targeting. Frontiers in Chemistry, 2019, 7, 770.	3.6	18
46	Direct synthesis of bifunctional nanorods from a Coâ€“adenineâ€“MoO₃ hybrid for overall water splitting. Materials Chemistry Frontiers, 2020, 4, 546-554.	5.9	17
47	Origin of friction hysteresis on monolayer graphene. Friction, 2022, 10, 573-582.	6.4	17
48	Atomic-Scale Friction of Black and Violet Phosphorus Crystals: Implications for Phosphorus-Based Devices and Lubricants. ACS Applied Nano Materials, 2021, 4, 9932-9937.	5.0	16
49	An efficient ruthenium-based dual-electrocatalyst towards hydrogen evolution and oxygen reduction reactions. Materials Today Physics, 2021, 16, 100300.	6.0	14
50	Facilitating the mechanical properties of a high-performance pH-sensitive membrane by cross-linking graphene oxide and polyacrylic acid. Nanotechnology, 2013, 24, 335704.	2.6	14
51	Probing the hydration friction of ionic interfaces at the atomic scale. Nanoscale Horizons, 2022, 7, 368-375.	8.0	14
52	Intermetallic Rhodium Alloy Nanoparticles for Electrocatalysis. ACS Applied Nano Materials, 2021, 4, 13716-13723.	5.0	14
53	Transition of chemically modified diphenylalanine peptide assemblies revealed by atomic force microscopy. RSC Advances, 2014, 4, 7516.	3.6	13
54	Friction behaviors of two-dimensional materials at the nanoscale. Materials Today Physics, 2022, 27, 100771.	6.0	13

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55	RNA nanopatterning on graphene. 2D Materials, 2018, 5, 031006.	4.4	12
56	Porous coordination polymer-derived ultrasmall CoP encapsulated in nitrogen-doped carbon for efficient hydrogen evolution in both acidic and basic media. International Journal of Hydrogen Energy, 2020, 45, 1729-1737.	7.1	12
57	In situ construction of tandem nitrogen-doped MoP nanocrystals for high-efficient electrocatalytic hydrogen evolution. Electrochimica Acta, 2020, 342, 136059.	5.2	11
58	Identification of a potent ionizable lipid for efficient macrophage transfection and systemic anti-interleukin-1Î² siRNA delivery against acute liver failure. Journal of Materials Chemistry B, 2021, 9, 5136-5149.	5.8	10
59	Mutations in COL1A1 Gene Change Dentin Nanostructure. Anatomical Record, 2016, 299, 511-519.	1.4	9
60	Synthesis of coordination polymer thin films with conductance-response to mechanical stimulation. Chemical Communications, 2019, 55, 2545-2548.	4.1	9
61	Unveiling chemical reactivity and oxidation of 1T-phased group VI disulfides. Physical Chemistry Chemical Physics, 2019, 21, 17010-17017.	2.8	7
62	Direct force producing uniform ultra-thin chitosan films by atomic force microscopy. RSC Advances, 2012, 2, 2732.	3.6	6
63	One dimensional BaxSr1 â^'xEryFe12 â^'yO19fibers with magnetic crystalline nanoparticles. Materials Research Express, 2014, 1, 036106.	1.6	6
64	Extracting the inner wall from nested double-walled carbon nanotube by platinum nanowire: molecular dynamics simulations. RSC Advances, 2017, 7, 39480-39489.	3.6	6
65	Confined hetero double helix structure induced by graphene nanoribbon. 2D Materials, 2019, 6, 034001.	4.4	5
66	Stability and temporal decay of nanopatterned tribocharge on nanotextured elastomer surfaces. Nano Energy, 2021, 79, 105441.	16.0	5
67	Double-edged roles of intrinsic defects in two-dimensional MoS2. Trends in Chemistry, 2022, 4, 451-463.	8.5	5
68	Nontoxic silicene photothermal agents with high near-infrared absorption for disassembly of Alzheimerâ€™s amyloidâ€Î² fibrils. Colloids and Surfaces B: Biointerfaces, 2022, 216, 112575.	5.0	5
69	Controlled construction of nanostructures in graphene. Chinese Physics B, 2014, 23, 028102.	1.4	4
70	In Situ Probing the Relaxation Properties of Ultrathin Polystyrene Films by Using Electric Force Microscopy. Nanoscale Research Letters, 2017, 12, 257.	5.7	4
71	Folding 2D Graphene Nanoribbons into 3D Nanocages Induced by Platinum Nanoclusters. Journal of Physical Chemistry C, 2020, 124, 10495-10501.	3.1	4
72	Nanoscale friction of strained molybdenum disulfide induced by nanoblisters. Applied Physics Letters, 2022, 120, 151601.	3.3	4

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73	Alteration of nanomechanical properties of pancreatic cancer cells through anticancer drug treatment revealed by atomic force microscopy. Beilstein Journal of Nanotechnology, 2021, 12, 1372-1379.	2.8	3
74	Identification and Nanomechanical Characterization of the HIV Tatâ€Amyloid Î² Peptide Multifibrillar Structures. Chemistry - A European Journal, 2020, 26, 9449-9453.	3.3	1
75	Editorial: Material Surfaces and Interfaces at the Nanoscale: From Theory to Application. Frontiers in Chemistry, 2021, 9, 656661.	3.6	1
76	Authors' Response to â€œMutations in COL1A1 Gene Change Dentin Nanostructure: A Responseâ€• Anatomical Record, 2018, 301, 1309-1310.	1.4	0