Liyi Li

List of Publications by Year in descending order

43 papers	1,562 citations	489802 18 h-index	488211 31 g-index
43 all docs	43 docs citations	43 times ranked	2905 citing authors

#	Article	IF	Citations
1	Anisotropic Charge Transport Enabling Highâ€Throughput and Highâ€Aspectâ€Ratio Wet Etching of Silicon Carbide. Small Methods, 2022, 6, .	4.6	27
2	Formation of Grapheneâ€“Silicon Junction by Room Temperature Reduction With Simultaneous Defects Removal. IEEE Transactions on Electron Devices, 2021, 68, 873-878.	1.6	0
3	Anodic TiO2 nanotube supercapacitors enhanced by a facile in situ doping method. Journal of Materials Science: Materials in Electronics, 2019, 30, 20892-20898.	1.1	1
4	Hybrid Anodic and Metalâ€Assisted Chemical Etching Method Enabling Fabrication of Silicon Carbide Nanowires. Small, 2019, 15, e1803898.	5.2	31
5	Enhanced micro-supercapacitors in aqueous electrolyte based on Si nanowires coated with TiO2. Journal of Materials Science: Materials in Electronics, 2019, 30, 8763-8770.	1.1	5
6	Uniform Metal-Assisted Chemical Etching for Ultra-High-Aspect-Ratio Microstructures on Silicon. Journal of Microelectromechanical Systems, 2019, 28, 143-153.	1.7	18
7	Defect inspection of flip chip package using SAM technology and fuzzy C-means algorithm. Science China Technological Sciences, 2018, 61, 1426-1430.	2.0	15
8	High-aspect-ratio microstructures with versatile slanting angles on silicon by uniform metal-assisted chemical etching. Journal of Micromechanics and Microengineering, 2018, 28, 055006.	1.5	5
9	Design and fabrication of inverted tapered micro-pillars for spontaneously transporting liquid upward. Microfluidics and Nanofluidics, 2018, 22, 1.	1.0	7
10	Silicon Nanowires Passivated by TiO<inf>2</inf> Layer for Supercapacitors in Aqueous Electrolyte. , 2018, , .		0
11	A high-performance TiO2 nanotube supercapacitor by tuning heating rate during H2 thermal annealing. Journal of Materials Science: Materials in Electronics, 2018, 29, 15130-15137.	1.1	3
12	Controlling Kink Geometry in Nanowires Fabricated by Alternating Metal-Assisted Chemical Etching. Nano Letters, 2017, 17, 1014-1019.	4.5	50
13	Ultrafast Molecular Stitching of Graphene Films at the Ethanol/Water Interface for High Volumetric Capacitance. Nano Letters, 2017, 17, 1365-1370.	4.5	42
14	Fabricating and Controlling Silicon Zigzag Nanowires by Diffusion-Controlled Metal-Assisted Chemical Etching Method. Nano Letters, 2017, 17, 4304-4310.	4.5	48
15	Effects of Defects on the Mechanical Properties of Kinked Silicon Nanowires. Nanoscale Research Letters, 2017, 12, 185.	3.1	11
16	Growth of Large-Size SnS Thin Crystals Driven by Oriented Attachment and Applications to Gas Sensors and Photodetectors. ACS Applied Materials & Interfaces, 2016, 8, 9545-9551.	4.0	94
17	Vertically Aligned and Interconnected Graphene Networks for High Thermal Conductivity of Epoxy Composites with Ultralow Loading. Chemistry of Materials, 2016, 28, 6096-6104.	3.2	325
18	A facile and low-cost route to high-aspect-ratio microstructures on silicon via a judicious combination of flow-enabled self-assembly and metal-assisted chemical etching. Journal of Materials Chemistry C, 2016, 4, 8953-8961.	2.7	9

#	Article	IF	Citations
19	Highly Conductive Polyurethane/Polyaniline-Based Composites for Wearable Electronic Applications. , 2016, , .		7
20	Formation of Polymer Insulation Layer (Liner) on Through Silicon Vias (TSV) with High Aspect Ratio over 5:1 by Direct Spin Coating. , 2016, , .		6
21	Formation of High-Aspect-Ratio through Silicon Vias (TSVs) with a Broad Range of Diameter by Uniform Metal-Assisted Chemical Etching (MaCE). , 2016, , .		3
22	Synthesis of Few-Atomic-Layer BN Hollow Nanospheres and Their Applications as Nanocontainers and Catalyst Support Materials. ACS Applied Materials & Interfaces, 2016, 8, 1578-1582.	4.0	33
23	Molecular engineering of aromatic amine spacers for high-performance graphene-based supercapacitors. Nano Energy, 2016, 21, 276-294.	8.2	61
24	UVAâ€shielding silicone/zinc oxide nanocomposite coating for automobile windows. Polymer Composites, 2016, 37, 2053-2057.	2.3	7
25	Uniform Metal-assisted Chemical Etching and the Stability of Catalysts. Materials Research Society Symposia Proceedings, 2015, 1801, 1-8.	0.1	4
26	Solution-processed flexible solid-state micro-supercapacitors for on-chip energy storage devices. , 2015, , .		6
27	Intelligent diagnosis of the solder bumps defects using fuzzy C-means algorithm with the weighted coefficients. Science China Technological Sciences, 2015, 58, 1689-1695.	2.0	8
28	Water-dispersible graphene/polyaniline composites for flexible micro-supercapacitors with high energy densities. Nano Energy, 2015, 16, 470-478.	8.2	151
29	In situ assembly of dispersed Ag nanoparticles on hierarchically porous organosilica microspheres for controllable reduction of 4-nitrophenol. Journal of Materials Science, 2015, 50, 3399-3408.	1.7	20
30	Wafer-level wet etching of high-aspect-ratio through silicon vias (TSVs) with high uniformity and low cost for silicon interposers with high-density interconnect of 3D packaging. , 2015, , .		4
31	Formation of Through Silicon Vias for Silicon Interposer in Wafer Level by Metal-Assisted Chemical Etching. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2015, 5, 1039-1049.	1.4	32
32	Triethanolamine functionalized graphene-based composites for high performance supercapacitors. Journal of Materials Chemistry A, 2015, 3, 21789-21796.	5.2	112
33	Charge Transport in Uniform Metal-Assisted Chemical Etching for 3D High-Aspect-Ratio Micro- and Nanofabrication on Silicon. ECS Journal of Solid State Science and Technology, 2015, 4, P337-P346.	0.9	18
34	Rational Design of a Printable, Highly Conductive Siliconeâ€based Electrically Conductive Adhesive for Stretchable Radioâ€Frequency Antennas. Advanced Functional Materials, 2015, 25, 464-470.	7.8	109
35	Flexible micro-supercapacitor based on in-situ assembled graphene on metal template at room temperature. Nano Energy, 2014, 10, 222-228.	8.2	111
36	Evolution of Etching Kinetics and Directional Transition of Nanowires Formed on Pyramidal Microtextures. Chemistry - an Asian Journal, 2014, 9, 93-99.	1.7	12

#	Article	IF	Citations
37	Wet etching of deep trenches on silicon with three-dimensional (3D) controllability. , 2014, , .		4
38	High-speed wet etching of through silicon vias (TSVs) in micro- and nanoscale. , 2014, , .		3
39	Deep Etching of Single- and Polycrystalline Silicon with High Speed, High Aspect Ratio, High Uniformity, and 3D Complexity by Electric Bias-Attenuated Metal-Assisted Chemical Etching (EMaCE). ACS Applied Materials & Interfaces, 2014, 6, 16782-16791.	4.0	51
40	Uniform Vertical Trench Etching on Silicon with High Aspect Ratio by Metal-Assisted Chemical Etching Using Nanoporous Catalysts. ACS Applied Materials & Interfaces, 2014, 6, 575-584.	4.0	95
41	Low-cost micrometer-scale silicon vias (SVs) fabrication by metal-assisted chemical etching (MaCE) and carbon nanotubes (CNTs) filling. , 2013, , .		7
42	High aspect ratio sub-100 nm silicon vias (SVs) by metal-assisted chemical etching (MaCE) and copper filling. , 2013, , .		6
43	Stretchable/printed RF devices via high-throughput, high-definability soft-lithography fabrication. , 2013, , .		1