

# Zhiyong Li

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

45 papers	3,042 citations	29 h-index	48 g-index
48 ext. papers	3,308 ext. citations	7.6 avg, IF	4.85 L-index

#	Paper	IF	Citations
45	Vapor-phase self-assembled monolayer for improved mold release in nanoimprint lithography. <i>Langmuir</i> , <b>2005</b> , 21, 1158-61	4	240
44	Ionic/electronic hybrid materials integrated in a synaptic transistor with signal processing and learning functions. <i>Advanced Materials</i> , <b>2010</b> , 22, 2448-53	24	225
43	A hybrid nanomemristor/transistor logic circuit capable of self-programming. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 1699-703	11.5	213
42	Hot-spot engineering in polygonal nanofinger assemblies for surface enhanced Raman spectroscopy. <i>Nano Letters</i> , <b>2011</b> , 11, 2538-42	11.5	165
41	Gold nanofingers for molecule trapping and detection. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 12820-2	16.4	162
40	Circuit fabrication at 17 nm half-pitch by nanoimprint lithography. <i>Nano Letters</i> , <b>2006</b> , 6, 351-4	11.5	158
39	Melamine sensing in milk products by using surface enhanced Raman scattering. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 9303-9	7.8	150
38	Top-down fabricated silicon nanowire sensors for real-time chemical detection. <i>Nanotechnology</i> , <b>2010</b> , 21, 015501	3.4	136
37	XPS and SERS Study of Silicon Phthalocyanine Monolayers: Umbrella vs Octopus Design Strategies for Formation of Oriented SAMs. <i>Langmuir</i> , <b>2001</b> , 17, 4887-4894	4	119
36	A new route toward ultrasensitive, flexible chemical sensors: metal nanotubes by wet-chemical synthesis along sacrificial nanowire templates. <i>ACS Nano</i> , <b>2012</b> , 6, 598-608	16.7	117
35	Self-Assembly of Alkanethiol Molecules onto Platinum and Platinum Oxide Surfaces. <i>Langmuir</i> , <b>2003</b> , 19, 6744-6749	4	109
34	Oriented assembly of polyhedral plasmonic nanoparticle clusters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 6640-5	11.5	108
33	Selective surface functionalization of silicon nanowires via nanoscale joule heating. <i>Nano Letters</i> , <b>2007</b> , 7, 3106-11	11.5	105
32	Study of molecular trapping inside gold nanofinger arrays on surface-enhanced Raman substrates. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 8234-9	16.4	92
31	Towards the silicon nanowire-based sensor for intracellular biochemical detection. <i>Biosensors and Bioelectronics</i> , <b>2007</b> , 22, 2065-70	11.8	88
30	Cones fabricated by 3D nanoimprint lithography for highly sensitive surface enhanced Raman spectroscopy. <i>Nanotechnology</i> , <b>2010</b> , 21, 255502	3.4	74
29	Cross-linked polymer replica of a nanoimprint mold at 30 nm half-pitch. <i>Nano Letters</i> , <b>2005</b> , 5, 179-82	11.5	64

28	SERS-based pesticide detection by using nanofinger sensors. <i>Nanotechnology</i> , <b>2015</b> , 26, 015502	3.4	63
27	Study of SERS chemical enhancement factors using buffer layer assisted growth of metal nanoparticles on self-assembled monolayers. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 6310-1	16.4	56
26	Localized temperature and chemical reaction control in nanoscale space by nanowire array. <i>Nano Letters</i> , <b>2011</b> , 11, 4818-25	11.5	52
25	Ultra-flat platinum surfaces from template-stripping of sputter deposited films. <i>Surface Science</i> , <b>2003</b> , 546, 87-96	1.8	49
24	Surface properties of platinum thin films as a function of plasma treatment conditions. <i>Surface Science</i> , <b>2003</b> , 529, 410-418	1.8	46
23	Axial Reactivity of Soluble Silicon(IV) Phthalocyanines. <i>Inorganic Chemistry</i> , <b>2001</b> , 40, 932-939	5.1	44
22	Multiplexed gas sensor based on heterogeneous metal oxide nanomaterial array enabled by localized liquid-phase reaction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 10152-61	9.5	42
21	Gas Sensor by Direct Growth and Functionalization of Metal Oxide/Metal Sulfide Core-Shell Nanowires on Flexible Substrates. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 24298-24307	9.5	37
20	Fabrication of deterministic nanostructure assemblies with sub-nanometer spacing using a nanoimprinting transfer technique. <i>ACS Nano</i> , <b>2012</b> , 6, 6446-52	16.7	36
19	Nanoimprint lithography for nanodevice fabrication. <i>Nano Convergence</i> , <b>2016</b> , 3, 21	9.2	34
18	An organic/Si nanowire hybrid field configurable transistor. <i>Nano Letters</i> , <b>2008</b> , 8, 876-80	11.5	32
17	Analog memory capacitor based on field-configurable ion-doped polymers. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 213503	3.4	31
16	Silver-coated Si nanograss as highly sensitive surface-enhanced Raman spectroscopy substrates. <i>Applied Physics A: Materials Science and Processing</i> , <b>2009</b> , 96, 793-797	2.6	29
15	Plasmonic optical antennas on dielectric gratings with high field enhancement for surface enhanced Raman spectroscopy. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 263114	3.4	28
14	Improved pattern transfer in nanoimprint lithography at 30 nm half-pitch by substrate-surface functionalization. <i>Langmuir</i> , <b>2005</b> , 21, 6127-30	4	27
13	Template stripping using cold welding. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2004</b> , 22, 602	2.9	21
12	High integrity metal/organic device interfaces via low temperature buffer layer assisted metal atom nucleation. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 173109	3.4	16
11	Fabrication of 30 nm pitch imprint moulds by frequency doubling for nanowire arrays. <i>Nanotechnology</i> , <b>2006</b> , 17, 4956-4961	3.4	14

10	Nanoimprint lithography of plasmonic platforms for SERS applications. <i>Applied Physics A: Materials Science and Processing</i> , <b>2015</b> , 121, 443-449	2.6	12
9	Optical properties of sub-wavelength dielectric gratings and their application for surface-enhanced Raman scattering. <i>Applied Physics A: Materials Science and Processing</i> , <b>2011</b> , 105, 261-266	2.6	9
8	Metallic nanocrystals near ultrasmooth metallic films for surface-enhanced Raman scattering application. <i>Nanotechnology</i> , <b>2008</b> , 19, 415702	3.4	8
7	Experimental demonstration of a defect-tolerant nanocrossbar demultiplexer. <i>Nanotechnology</i> , <b>2008</b> , 19, 165203	3.4	8
6	Nanoimprint lithography enables memristor crossbars and hybrid circuits. <i>Applied Physics A: Materials Science and Processing</i> , <b>2015</b> , 121, 467-479	2.6	7
5	Guided-mode resonance sensor with extended spatial sensitivity <b>2007</b> ,		5
4	Deterministic nanoparticle assemblies: from substrate to solution. <i>Nanotechnology</i> , <b>2014</b> , 25, 155302	3.4	4
3	Metal-coated Si nanograss as highly sensitive SERS sensors <b>2009</b> ,		3
2	THIOL-MODIFIED PHTHALOCYANINES AND THEIR SELF-ASSEMBLED MONOLAYERS ON GOLD SURFACES <b>1999</b> , 24-35		3
1	Hybrid gold nanofinger SERS structure for sensing applications. <i>Materials Research Society Symposia Proceedings</i> , <b>2011</b> , 1359, 141		