Zhiyong Li

List of Publications by Year in Descending Order

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	Gas Sensor by Direct Growth and Functionalization of Metal Oxide/Metal Sulfide Core-Shell Nanowires on Flexible Substrates. *ACS Applied Materials & Interfaces*, **2019**, 11, 24298-24307	9.5	37
44	Nanoimprint lithography for nanodevice fabrication. *Nano Convergence*, **2016**, 3, 21	9.2	34
43	Nanoimprint lithography enables memristor crossbars and hybrid circuits. *Applied Physics A: Materials Science and Processing*, **2015**, 121, 467-479	2.6	7
42	Multiplexed gas sensor based on heterogeneous metal oxide nanomaterial array enabled by localized liquid-phase reaction. *ACS Applied Materials & Interfaces*, **2015**, 7, 10152-61	9.5	42
41	Nanoimprint lithography of plasmonic platforms for SERS applications. *Applied Physics A: Materials Science and Processing*, **2015**, 121, 443-449	2.6	12
40	SERS-based pesticide detection by using nanofinger sensors. *Nanotechnology*, **2015**, 26, 015502	3.4	63
39	Deterministic nanoparticle assemblies: from substrate to solution. *Nanotechnology*, **2014**, 25, 155302	3.4	4
38	Oriented assembly of polyhedral plasmonic nanoparticle clusters. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 6640-5	11.5	108
37	Fabrication of deterministic nanostructure assemblies with sub-nanometer spacing using a nanoimprinting transfer technique. *ACS Nano*, **2012**, 6, 6446-52	16.7	36
36	Melamine sensing in milk products by using surface enhanced Raman scattering. *Analytical Chemistry*, **2012**, 84, 9303-9	7.8	150
35	A new route toward ultrasensitive, flexible chemical sensors: metal nanotubes by wet-chemical synthesis along sacrificial nanowire templates. *ACS Nano*, **2012**, 6, 598-608	16.7	117
34	Optical properties of sub-wavelength dielectric gratings and their application for surface-enhanced Raman scattering. *Applied Physics A: Materials Science and Processing*, **2011**, 105, 261-266	2.6	9
33	Localized temperature and chemical reaction control in nanoscale space by nanowire array. *Nano Letters*, **2011**, 11, 4818-25	11.5	52
32	Hot-spot engineering in polygonal nanofinger assemblies for surface enhanced Raman spectroscopy. *Nano Letters*, **2011**, 11, 2538-42	11.5	165
31	Study of molecular trapping inside gold nanofinger arrays on surface-enhanced Raman substrates. *Journal of the American Chemical Society*, **2011**, 133, 8234-9	16.4	92
30	Hybrid gold nanofinger SERS structure for sensing applications. *Materials Research Society Symposia Proceedings*, **2011**, 1359, 141		
29	High integrity metal/organic device interfaces via low temperature buffer layer assisted metal atom nucleation. *Applied Physics Letters*, **2010**, 96, 173109	3.4	16

28	Top-down fabricated silicon nanowire sensors for real-time chemical detection. *Nanotechnology*, **2010**, 21, 015501	3.4	136
27	Cones fabricated by 3D nanoimprint lithography for highly sensitive surface enhanced Raman spectroscopy. *Nanotechnology*, **2010**, 21, 255502	3.4	74
26	Gold nanofingers for molecule trapping and detection. *Journal of the American Chemical Society*, **2010**, 132, 12820-2	16.4	162
25	Ionic/electronic hybrid materials integrated in a synaptic transistor with signal processing and learning functions. *Advanced Materials*, **2010**, 22, 2448-53	24	225
24	A hybrid nanomemristor/transistor logic circuit capable of self-programming. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 1699-703	11.5	213
23	Metal-coated Si nanograss as highly sensitive SERS sensors **2009**,		3
22	Silver-coated Si nanograss as highly sensitive surface-enhanced Raman spectroscopy substrates. *Applied Physics A: Materials Science and Processing*, **2009**, 96, 793-797	2.6	29
21	Analog memory capacitor based on field-configurable ion-doped polymers. *Applied Physics Letters*, **2009**, 95, 213503	3.4	31
20	Study of SERS chemical enhancement factors using buffer layer assisted growth of metal nanoparticles on self-assembled monolayers. *Journal of the American Chemical Society*, **2009**, 131, 6310-1	16.4	56
19	Plasmonic optical antennas on dielectric gratings with high field enhancement for surface enhanced Raman spectroscopy. *Applied Physics Letters*, **2009**, 94, 263114	3.4	28
18	An organic/Si nanowire hybrid field configurable transistor. *Nano Letters*, **2008**, 8, 876-80	11.5	32
17	Metallic nanocrystals near ultrasmooth metallic films for surface-enhanced Raman scattering application. *Nanotechnology*, **2008**, 19, 415702	3.4	8
16	Experimental demonstration of a defect-tolerant nanocrossbar demultiplexer. *Nanotechnology*, **2008**, 19, 165203	3.4	8
15	Selective surface functionalization of silicon nanowires via nanoscale joule heating. *Nano Letters*, **2007**, 7, 3106-11	11.5	105
14	Towards the silicon nanowire-based sensor for intracellular biochemical detection. *Biosensors and Bioelectronics*, **2007**, 22, 2065-70	11.8	88
13	Guided-mode resonance sensor with extended spatial sensitivity **2007**,		5
12	Circuit fabrication at 17 nm half-pitch by nanoimprint lithography. *Nano Letters*, **2006**, 6, 351-4	11.5	158
11	Fabrication of 30 nm pitch imprint moulds by frequency doubling for nanowire arrays. *Nanotechnology*, **2006**, 17, 4956-4961	3.4	14

10	Improved pattern transfer in nanoimprint lithography at 30 nm half-pitch by substrate-surface functionalization. *Langmuir*, **2005**, 21, 6127-30	4	27
9	Cross-linked polymer replica of a nanoimprint mold at 30 nm half-pitch. *Nano Letters*, **2005**, 5, 179-82	11.5	64
8	Vapor-phase self-assembled monolayer for improved mold release in nanoimprint lithography. *Langmuir*, **2005**, 21, 1158-61	4	240
7	Template stripping using cold welding. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2004**, 22, 602	2.9	21
6	Ultra-flat platinum surfaces from template-stripping of sputter deposited films. *Surface Science*, **2003**, 546, 87-96	1.8	49
5	Surface properties of platinum thin films as a function of plasma treatment conditions. *Surface Science*, **2003**, 529, 410-418	1.8	46
4	Self-Assembly of Alkanethiol Molecules onto Platinum and Platinum Oxide Surfaces. *Langmuir*, **2003**, 19, 6744-6749	4	109
3	XPS and SERS Study of Silicon Phthalocyanine Monolayers: Umbrella vs Octopus Design Strategies for Formation of Oriented SAMs. *Langmuir*, **2001**, 17, 4887-4894	4	119
2	Axial Reactivity of Soluble Silicon(IV) Phthalocyanines. *Inorganic Chemistry*, **2001**, 40, 932-939	5.1	44
1	THIOL-MODIFIED PHTHALOCYANINES AND THEIR SELF-ASSEMBLED MONOLAYERS ON GOLD SURFACES **1999**, 24-35		3