

Chang Chen

List of Publications by Year in descending order

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56
papers

1,725
citations

257357

24
h-index

276775

41
g-index

57
all docs

57
docs citations

57
times ranked

2537
citing authors

#	ARTICLE	IF	CITATIONS
1	High spatial resolution nanoslit SERS for single-molecule nucleobase sensing. Nature Communications, 2018, 9, 1733.	5.8	127
2	In-situ ATR-FTIR for dynamic analysis of superhydrophobic breakdown on nanostructured silicon surfaces. Scientific Reports, 2018, 8, 11637.	1.6	21
3	Probing Local Potentials inside Metallic Nanopores with SERS and Bipolar Electrochemistry. Advanced Optical Materials, 2017, 5, 1600907.	3.6	11
4	Asymmetric plasmonic induced ionic noise in metallic nanopores. Nanoscale, 2016, 8, 12324-12329.	2.8	9
5	Influence of wetting state on optical reflectance spectra of Si nanopillar arrays. Journal of Applied Physics, 2015, 118, 213102.	1.1	5
6	Photoresistance Switching of Plasmonic Nanopores. Nano Letters, 2015, 15, 776-782.	4.5	38
7	Visualization of molecular fluorescence point spread functions via remote excitation switching fluorescence microscopy. Nature Communications, 2015, 6, 6287.	5.8	58
8	Revisiting the Surface Sensitivity of Nanoplasmonic Biosensors. ACS Photonics, 2015, 2, 425-431.	3.2	83
9	Raman fingerprinting of single dielectric nanoparticles in plasmonic nanopores. Nanoscale, 2015, 7, 18612-18618.	2.8	28
10	Full wetting of plasmonic nanopores through two-component droplets. Chemical Science, 2015, 6, 6564-6571.	3.7	11
11	Biosensing Using Diffractively Coupled Plasmonic Crystals: the Figure of Merit Revisited. Advanced Optical Materials, 2015, 3, 176-181.	3.6	52
12	Nanoplasmonic Sensors with Various Photonic Coupling Effects for Detecting Different Targets. Journal of Physical Chemistry C, 2015, 119, 29116-29122.	1.5	36
13	Characterization of PECVD silicon nitride photonic components at 532 and 900 nm wavelength. Proceedings of SPIE, 2014, , .	0.8	2
14	Investigation of the correlation between the bulk and surface sensing performance in plasmonic crystals. , 2014, , .		1
15	Raman spectroscopy and optical trapping of 20 nm polystyrene particles in plasmonic nanopores. , 2014, , .		1
16	Capturing Wetting States in Nanopatterned Silicon. ACS Nano, 2014, 8, 885-893.	7.3	55
17	300 mm Wafer-level, ultra-dense arrays of Au-capped nanopillars with sub-10 nm gaps as reliable SERS substrates. Nanoscale, 2014, 6, 12391-12396.	2.8	62
18	Live-Cell SERS Endoscopy Using Plasmonic Nanowire Waveguides. Advanced Materials, 2014, 26, 5124-5128.	11.1	110

#	ARTICLE	IF	CITATIONS
19	Nanopore fluidic SERS. , 2014, , .		0
20	Plasmonic nanoslit for fluidic SERS: A strategy towards genome sequencing. , 2013, , .		1
21	Harnessing Plasmon-Induced Ionic Noise in Metallic Nanopores. Nano Letters, 2013, 13, 1724-1729.	4.5	23
22	Detection of DNA Bases and Oligonucleotides in Plasmonic Nanoslits Using Fluidic SERS. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 4600707-4600707.	1.9	12
23	Wafer Scale Processing of Plasmonic Nanoslit Arrays in 200mm CMOS Fab Environment. ECS Transactions, 2013, 50, 413-422.	0.3	8
24	Enhanced Optical Trapping and Arrangement of Nano-Objects in a Plasmonic Nanocavity. Nano Letters, 2012, 12, 125-132.	4.5	168
25	Wafer Scale Processing of Plasmonic Nanopore Arrays in 200mm CMOS Fab Environment. ECS Meeting Abstracts, 2012, , .	0.0	0
26	Integrated devices for active plasmonics and surface enhanced Raman scattering. , 2011, , .		0
27	Highly confined surface plasmon polariton resonances in rectangular nanopore cavities. Physica Status Solidi - Rapid Research Letters, 2010, 4, 247-249.	1.2	11
28	Raman scattered photon transmission through a single nanoslit. Applied Physics Letters, 2010, 96, .	1.5	8
29	Local solid-state modification of nanopore surface charges. Nanotechnology, 2010, 21, 335703.	1.3	8
30	Raman Spectroscopy for Demonstrating the Sub-Wavelength Light Transmission. , 2010, , .		0
31	Study on Localized SERS by Spatially Selective Deposition of Raman Analytes. , 2010, , .		0
32	Groove-gratings to optimize the electric field enhancement in a plasmonic nanoslit-cavity. Journal of Applied Physics, 2010, 108, 034319.	1.1	14
33	Strong location dependent surface enhanced Raman scattering on individual gold semishell and nanobowl particles. Physical Chemistry Chemical Physics, 2010, 12, 11222.	1.3	41
34	Direct Evidence of High Spatial Localization of Hot Spots in Surface-Enhanced Raman Scattering. Angewandte Chemie - International Edition, 2009, 48, 9932-9935.	7.2	58
35	Focusing Plasmons in Nanoslits for Surface-Enhanced Raman Scattering. Small, 2009, 5, 2876-2882.	5.2	44
36	Hollow Platinum Nanoshell Tube Arrays: Fabrication and Characterization. Journal of Physical Chemistry C, 2009, 113, 5472-5477.	1.5	16

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37	Shrinking solid-state nanopores using electron-beam-induced deposition. <i>Nanotechnology</i> , 2009, 20, 115302.	1.3	37
38	Novel concepts for improved communication between nerve cells and silicon electronic devices. <i>Solid-State Electronics</i> , 2008, 52, 533-539.	0.8	20
39	Study on the growth mechanism of silver nanorods in the nanowire-seeding polyol process. <i>Materials Chemistry and Physics</i> , 2008, 107, 13-17.	2.0	29
40	The fabrication and optical property of silver nanoplates with different thicknesses. <i>Nanotechnology</i> , 2008, 19, 325702.	1.3	35
41	Morphology-controlled synthesis of silver nanostructures via a seed catalysis process. <i>Nanotechnology</i> , 2007, 18, 115612.	1.3	36
42	Effect of silver nanowires on electrical conductance of system composed of silver particles. <i>Journal of Materials Science</i> , 2007, 42, 3172-3176.	1.7	53
43	Study on the synthesis of silver nanowires with adjustable diameters through the polyol process. <i>Nanotechnology</i> , 2006, 17, 3933-3938.	1.3	87
44	Electrochemical behavior on poly(ferrocenyldimethylsilane)-b-poly(benzyl ether) linear-dendritic organometallic polymer films. <i>Journal of Electroanalytical Chemistry</i> , 2006, 586, 122-127.	1.9	24
45	Macroscopic self-assembly of hyperbranched polyesters. <i>Polymer</i> , 2006, 47, 12-17.	1.8	36
46	Preparation of gold nanoparticles in the presence of poly(benzyl ether) alcohol dendrons. <i>Materials Chemistry and Physics</i> , 2006, 98, 76-82.	2.0	27
47	Synthesis of multi-arm star polystyrene with hyperbranched polyester initiators by atom transfer radical polymerization. <i>Journal of Applied Polymer Science</i> , 2006, 99, 728-733.	1.3	11
48	Synthesis and self-assembly of hyperbranched polyethers peripherally modified with adenosine 5'-monophosphate. <i>Journal of Applied Polymer Science</i> , 2006, 99, 1147-1152.	1.3	2
49	Synthesis, characterization, and pressure-sensitive properties of butyl acrylate and methyl acrylate copolymers. <i>Journal of Applied Polymer Science</i> , 2006, 101, 1535-1542.	1.3	7
50	Preparation of organic/inorganic hybrid nanoballs using aggregates of PTMSPMA-b-PSMA-Fc-PSMA-b-PTMSPMA block copolymers as precursors. <i>Nanotechnology</i> , 2006, 17, 2745-2751.	1.3	10
51	The influence of seeding conditions and shielding gas atmosphere on the synthesis of silver nanowires through the polyol process. <i>Nanotechnology</i> , 2006, 17, 466-474.	1.3	61
52	Study on attachment of highly branched molecules onto multiwalled carbon nanotubes. <i>Materials Letters</i> , 2005, 59, 2085-2089.	1.3	44
53	Synthesis, properties, and self-assembly of poly(benzyl ether)-b-polystyrene dendritic-linear polymers. <i>Journal of Applied Polymer Science</i> , 2005, 98, 1106-1112.	1.3	9
54	Synthesis and macroscopic self-assembly of multiarm hyperbranched polyethers with benzoyl-terminated groups. <i>Polymer</i> , 2005, 46, 5351-5357.	1.8	23

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55	Synthesis and self-assembly of hyperbranched polyester peripherally modified by toluene-4-sulfonyl groups. <i>Polymer</i> , 2005, 46, 9501-9507.	1.8	19
56	Synthesis and self-assembly of hyperbranched polymers with benzoyl terminal arms. <i>Journal of Polymer Science Part A</i> , 2005, 43, 5554-5561.	2.5	24