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	Enhanced Optical Trapping and Arrangement of Nano-Objects in a Plasmonic Nanocavity. Nano Letters, 2012, 12, 125-132.	4.5	168
2	High spatial resolution nanoslit SERS for single-molecule nucleobase sensing. Nature Communications, 2018, 9, 1733.	5.8	127
3	Liveâ€Cell SERS Endoscopy Using Plasmonic Nanowire Waveguides. Advanced Materials, 2014, 26, 5124-5128.	11.1	110
4	Study on the synthesis of silver nanowires with adjustable diameters through the polyol process. Nanotechnology, 2006, 17, 3933-3938.	1.3	87
5	Revisiting the Surface Sensitivity of Nanoplasmonic Biosensors. ACS Photonics, 2015, 2, 425-431.	3.2	83
6	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
7	The influence of seeding conditions and shielding gas atmosphere on the synthesis of silver nanowires through the polyol process. Nanotechnology, 2006, 17, 466-474.	1.3	61
8	Direct Evidence of High Spatial Localization of Hot Spots in Surfaceâ€Enhanced Raman Scattering. Angewandte Chemie - International Edition, 2009, 48, 9932-9935.	7.2	58
9	Visualization of molecular fluorescence point spread functions via remote excitation switching fluorescence microscopy. Nature Communications, 2015, 6, 6287.	5.8	58
10	Capturing Wetting States in Nanopatterned Silicon. ACS Nano, 2014, 8, 885-893.	7.3	55
11	Effect of silver nanowires on electrical conductance of system composed of silver particles. Journal of Materials Science, 2007, 42, 3172-3176.	1.7	53
12	Biosensing Using Diffractively Coupled Plasmonic Crystals: the Figure of Merit Revisited. Advanced Optical Materials, 2015, 3, 176-181.	3.6	52
13	Study on attachment of highly branched molecules onto multiwalled carbon nanotubes. Materials Letters, 2005, 59, 2085-2089.	1.3	44
14	Focusing Plasmons in Nanoslits for Surfaceâ€Enhanced Raman Scattering. Small, 2009, 5, 2876-2882.	5.2	44
15	Strong location dependent surface enhanced Raman scattering on individual gold semishell and nanobowl particles. Physical Chemistry Chemical Physics, 2010, 12, 11222.	1.3	41
16	Photoresistance Switching of Plasmonic Nanopores. Nano Letters, 2015, 15, 776-782.	4.5	38
17	Shrinking solid-state nanopores using electron-beam-induced deposition. Nanotechnology, 2009, 20, 115302.	1.3	37
18	Macroscopic self-assembly of hyperbranched polyesters. Polymer, 2006, 47, 12-17.	1.8	36

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19	Morphology-controlled synthesis of silver nanostructures via a seed catalysis process. Nanotechnology, 2007, 18, 115612.	1.3	36
20	Nanoplasmonic Sensors with Various Photonic Coupling Effects for Detecting Different Targets. Journal of Physical Chemistry C, 2015, 119, 29116-29122.	1.5	36
21	The fabrication and optical property of silver nanoplates with different thicknesses. Nanotechnology, 2008, 19, 325702.	1.3	35
22	Study on the growth mechanism of silver nanorods in the nanowire-seeding polyol process. Materials Chemistry and Physics, 2008, 107, 13-17.	2.0	29
23	Raman fingerprinting of single dielectric nanoparticles in plasmonic nanopores. Nanoscale, 2015, 7, 18612-18618.	2.8	28
24	Preparation of gold nanoparticles in the presence of poly(benzyl ether) alcohol dendrons. Materials Chemistry and Physics, 2006, 98, 76-82.	2.0	27
25	Synthesis and self-assembly of hyperbranched polymers with benzoyl terminal arms. Journal of Polymer Science Part A, 2005, 43, 5554-5561.	2.5	24
26	Electrochemical behavior on poly(ferrocenyldimethylsilane)-b-poly(benzyl ether) linear-dendritic organometallic polymer films. Journal of Electroanalytical Chemistry, 2006, 586, 122-127.	1.9	24
27	Synthesis and macroscopic self-assembly of multiarm hyperbranched polyethers with benzoyl-terminated groups. Polymer, 2005, 46, 5351-5357.	1.8	23
28	Harnessing Plasmon-Induced Ionic Noise in Metallic Nanopores. Nano Letters, 2013, 13, 1724-1729.	4.5	23
29	In-situ ATR-FTIR for dynamic analysis of superhydrophobic breakdown on nanostructured silicon surfaces. Scientific Reports, 2018, 8, 11637.	1.6	21
30	Novel concepts for improved communication between nerve cells and silicon electronic devices. Solid-State Electronics, 2008, 52, 533-539.	0.8	20
31	Synthesis and self-assembly of hyperbranched polyester peripherally modified by touluene-4-sulfonyl groups. Polymer, 2005, 46, 9501-9507.	1.8	19
32	Hollow Platinum Nanoshell Tube Arrays: Fabrication and Characterization. Journal of Physical Chemistry C, 2009, 113, 5472-5477.	1.5	16
33	Groove-gratings to optimize the electric field enhancement in a plasmonic nanoslit-cavity. Journal of Applied Physics, 2010, 108, 034319.	1.1	14
34	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
35	Synthesis of multi-arm star polystyrene with hyperbranched polyester initiators by atom transfer radical polymerization. Journal of Applied Polymer Science, 2006, 99, 728-733.	1.3	11
36	Highly confined surface plasmon polariton resonances in rectangular nanopore cavities. Physica Status Solidi - Rapid Research Letters, 2010, 4, 247-249.	1.2	11

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37	Full wetting of plasmonic nanopores through two-component droplets. Chemical Science, 2015, 6, 6564-6571.	3.7	11
38	Probing Local Potentials inside Metallic Nanopores with SERS and Bipolar Electrochemistry. Advanced Optical Materials, 2017, 5, 1600907.	3.6	11
39	Preparation of organic/inorganic hybrid nanoballs using aggregates of PTMSPMA-b-PSMA-Fc-PSMA-b-PTMSPMA block copolymers as precursors. Nanotechnology, 2006, 17, 2745-2751.	1.3	10
40	Synthesis, properties, and self-assembly of poly(benzyl ether)-b-polystyrene dendritic-linear polymers. Journal of Applied Polymer Science, 2005, 98, 1106-1112.	1.3	9
41	Asymmetric plasmonic induced ionic noise in metallic nanopores. Nanoscale, 2016, 8, 12324-12329.	2.8	9
42	Raman scattered photon transmission through a single nanoslit. Applied Physics Letters, 2010, 96, .	1.5	8
43	Local solid-state modification of nanopore surface charges. Nanotechnology, 2010, 21, 335703.	1.3	8
44	Wafer Scale Processing of Plasmonic Nanoslit Arrays in 200mm CMOS Fab Environment. ECS Transactions, 2013, 50, 413-422.	0.3	8
45	Synthesis, characterization, and pressure-sensitive properties of butyl acrylate and methyl acrylate copolymers. Journal of Applied Polymer Science, 2006, 101, 1535-1542.	1.3	7
46	Influence of wetting state on optical reflectance spectra of Si nanopillar arrays. Journal of Applied Physics, 2015, 118, 213102.	1.1	5
47	Synthesis and self-assembly of hyperbranched polyethers peripherally modified with adenosine 5â€²-monophosphate. Journal of Applied Polymer Science, 2006, 99, 1147-1152.	1.3	2
48	Characterization of PECVD silicon nitride photonic components at 532 and 900 nm wavelength. Proceedings of SPIE, 2014, , .	0.8	2
49	Plasmonic nanoslit for fluidic SERS: A strategy towards genome sequencing. , 2013, , .		1
50	Investigation of the correlation between the bulk and surface sensing performance in plasmonic crystals. , 2014, , .		1
51	Raman spectroscopy and optical trapping of 20 nm polystyrene particles in plasmonic nanopores. , 2014, , .		1
52	Raman Spectroscopy for Demonstrating the Sub-Wavelength Light Transmission. , 2010, , .		0
53	Study on Localized SERS by Spatially Selective Deposition of Raman Analytes. , 2010, , .		0
54	Integrated devices for active plasmonics and surface enhanced Raman scattering. , 2011, , .		0

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55	Wafer Scale Processing of Plasmonic Nanopore Arrays in 200mm CMOS Fab Environment. ECS Meeting Abstracts, 2012, , .	0.0	0
56	Nanopore fluidic SERS. , 2014, , .		0