Fusheng Zhao

List of Publications by Year
in descending order

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47	1,091	393982	525886
papers	citations	19	27
		h-index	g-index

48	48	48	1140
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Monolithic NPG nanoparticles with large surface area, tunable plasmonics, and high-density internal hot-spots. Nanoscale, 2014, 6, 8199-8207.	2.8	105
2	Characterization of nanoporous gold disks for photothermal light harvesting and light-gated molecular release. Nanoscale, 2014, 6, 5718-5724.	2.8	88
3	Label-free, in situ SERS monitoring of individual DNA hybridization in microfluidics. Nanoscale, 2014, 6, 8521-8526.	2.8	85
4	Reagent- and separation-free measurements of urine creatinine concentration using stamping surface enhanced Raman scattering (S-SERS). Biomedical Optics Express, 2015, 6, 849.	1.5	81
5	Microfluidic surface-enhanced Raman scattering sensor with monolithically integrated nanoporous gold disk arrays for rapid and label-free biomolecular detection. Journal of Biomedical Optics, 2014, 19, 111611.	1.4	77
6	Simultaneous Chemical and Refractive Index Sensing in the 1â€“2.5 Î¼m Near-Infrared Wavelength Range on Nanoporous Gold Disks. Nano Letters, 2016, 16, 4641-4647.	4.5	72
7	Laser rapid thermal annealing enables tunable plasmonics in nanoporous gold nanoparticles. Nanoscale, 2014, 6, 12470-12475.	2.8	62
8	Morphological control and plasmonic tuning of nanoporous gold disks by surface modifications. Journal of Materials Chemistry C, 2015, 3, 247-252.	2.7	55
9	Photothermal inactivation of heat-resistant bacteria on nanoporous gold disk arrays. Optical Materials Express, 2016, 6, 1217.	1.6	53
10	Stamping surface-enhanced Raman spectroscopy for label-free, multiplexed, molecular sensing and imaging. Journal of Biomedical Optics, 2014, 19, 050501.	1.4	48
11	Internal and external morphology-dependent plasmonic resonance in monolithic nanoporous gold nanoparticles. RSC Advances, 2014, 4, 36682-36688.	1.7	48
12	Labelâ€free, zeptomole cancer biomarker detection by surfaceâ€enhanced fluorescence on nanoporous gold disk plasmonic nanoparticles. Journal of Biophotonics, 2015, 8, 855-863.	1.1	44
13	Nanoporous Gold Disks Functionalized with Stabilized G-Quadruplex Moieties for Sensing Small Molecules. ACS Applied Materials & Interfaces, 2016, 8, 29968-29976.	4.0	41
14	EBL-Based Fabrication and Different Modeling Approaches for Nanoporous Gold Nanodisks. ACS Photonics, 2017, 4, 1870-1878.	3.2	39
15	Symmetry Breaking-Induced Plasmonic Mode Splitting in Coupled Goldâ€“Silver Alloy Nanodisk Array for Ultrasensitive RGB Colorimetric Biosensing. ACS Applied Materials & Interfaces, 2019, 11, 2273-2281.	4.0	30
16	Far-field plasmonic coupling in 2-dimensional polycrystalline plasmonic arrays enables wide tunability with low-cost nanofabrication. Nanoscale Horizons, 2017, 2, 267-276.	4.1	26
17	Photothermal generation of programmable microbubble array on nanoporous gold disks. Optics Express, 2018, 26, 16893.	1.7	26
18	Nanoporous Gold Nanocomposites as a Versatile Platform for Plasmonic Engineering and Sensing. Sensors, 2017, 17, 1519.	2.1	22

#	Article	IF	Citations
19	Direct-write patterning of nanoporous gold microstructures by in situ laser-assisted dealloying. Optics Express, 2016, 24, 23610.	1.7	21
20	Catalytic assembly of DNA nanostructures on a nanoporous gold array as 3D architectures for label-free telomerase activity sensing. Nanoscale Horizons, 2017, 2, 217-224.	4.1	21
21	Plasmonic nanoparticle-based expansion microscopy with surface-enhanced Raman and dark-field spectroscopic imaging. Biomedical Optics Express, 2018, 9, 603.	1.5	17
22	In situ patterning of hierarchical nanoporous gold structures by in-plane dealloying. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2015, 194, 34-40.	1.7	15
23	Directed Concentrating of Micro-/Nanoparticles via Near-Infrared Laser Generated Plasmonic Microbubbles. ACS Omega, 2020, 5, 32481-32489.	1.6	6
24	Nanoplasmonic sensing on DNA topological structure functionalized nanoporous gold disks. , 2016, , .		2
25	Modeling nanoporous gold plasmonic nanoparticles: Calculation of optical properties. , 2015, , .		1
26	Photothermal inactivation of bacteria on plasmonic nanostructures. Proceedings of SPIE, 2016, , .	0.8	1
27	Portable SERS sensor for malachite green and other small dye molecules. Proceedings of SPIE, 2017, , .	0.8	1
28	Laser-assisted dealloying for direct-write patterning of plasmonic nanostructures. Proceedings of SPIE, 2017, , .	0.8	1
29	Single-molecule DNA hybridization on nanoporous gold nanoparticle array chip. Proceedings of SPIE, 2017, , .	0.8	1
30	Label-free Biomolecular Sensing by SERS on Nanoporous Gold Nanoparticle Arrays. , 2018, , .		1
31	Photothermal Generation of Programmable Microbubble Array on Nanoporous Gold Disks. , 2018, , .		1
32	Wavelength tunable plasmon enhanced photoluminescence from quantum dots. , 2015, , .		0
33	Label-free monitoring of individual DNA hybridization using SERS. Proceedings of SPIE, 2015, , .	0.8	0
34	Monolithic nanoporous gold disks with large surface area and high-density plasmonic hot-spots. Proceedings of SPIE, 2015, , .	0.8	0
35	Stamping SERS for creatinine sensing. Proceedings of SPIE, 2015, , .	0.8	0
36	Monolithically integrated microfluidic nanoporous gold disk (NPGD) surface-enhanced Raman scattering (SERS) sensor for rapid and label-free biomolecular detection. , 2015, , .		0

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37	Label-free, multiplexed, molecular sensing and imaging by stamping SERS. , 2015, , .		0
38	Photothermal light harvesting and light-gated molecular release by nanoporous gold disks. , 2015, , .		0
39	Surface-enhanced near-infrared absorption (SENIRA) spectroscopy. , 2016, , .		0
40	Gold nanoparticle decorated AAO filter membrane for SERS sensing of urine acetaminophen. , 2016, , .		0
41	Photothermal generation of microbubbles on plasmonic nanostructures inside microfluidic channels. Proceedings of SPIE, 2016, , .	0.8	0
42	Plasmonic biosensor for label-free G-quadruplexes detection. , 2016, , .		0
43	Tunable gold nano-disks array on flexible substrates. , 2017, , .		0
44	Holographic Microbubble Actuators for Microfluidic Manipulation and Particle Assembly. , 2018, , .		0
45	Sensitive and selective nanoplasmonic sensor by functionalized nanoporous gold nanoparticle array chip. Proceedings of SPIE, 2017, , .	0.8	0
46	3D plasmonic nanoarchitectures for extreme light concentration. , 2017, , .		0
47	Multimodal signal amplification by collaborative plasmonic intensification and catalytic multiplication (c-PI/CM). , 2019, , .		0