Huilin Shao

List of Publications by Year
in descending order

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42 papers	5,791 citations	201674 27 h-index	276875 41 g-index
44 all docs	44 docs citations	44 times ranked	8550 citing authors

#	Article	IF	Citations
1	Label-free detection and molecular profiling of exosomes with a nano-plasmonic sensor. Nature Biotechnology, 2014, 32, 490-495.	17.5	1,060
2	New Technologies for Analysis of Extracellular Vesicles. Chemical Reviews, 2018, 118, 1917-1950.	47.7	1,041
3	Protein typing of circulating microvesicles allows real-time monitoring of glioblastoma therapy. Nature Medicine, 2012, 18, 1835-1840.	30.7	647
4	Chip-based analysis of exosomal mRNA mediating drug resistance in glioblastoma. Nature Communications, 2015, 6, 6999.	12.8	484
5	Acoustic Purification of Extracellular Microvesicles. ACS Nano, 2015, 9, 2321-2327.	14.6	413
6	Bifunctional Fe₃O₄â€“Ag Heterodimer Nanoparticles for Twoâ€Photon Fluorescence Imaging and Magnetic Manipulation. Advanced Materials, 2008, 20, 4403-4407.	21.0	258
7	Ultrasensitive Clinical Enumeration of Rare Cells ex Vivo Using a Micro-Hall Detector. Science Translational Medicine, 2012, 4, 141ra92.	12.4	211
8	Magnetic Nanoparticles and microNMR for Diagnostic Applications. Theranostics, 2012, 2, 55-65.	10.0	152
9	Subtyping of circulating exosome-bound amyloid Î² reflects brain plaque deposition. Nature Communications, 2019, 10, 1144.	12.8	136
10	Mechanism of Magnetic Relaxation Switching Sensing. ACS Nano, 2012, 6, 6821-6828.	14.6	115
11	Magnetic Nanosensor for Detection and Profiling of Erythrocyte-Derived Microvesicles. ACS Nano, 2013, 7, 11227-11233.	14.6	96
12	Multicore Assemblies Potentiate Magnetic Properties of Biomagnetic Nanoparticles. Advanced Materials, 2011, 23, 4793-4797.	21.0	92
13	Magnetic nanoparticles for biomedical NMR-based diagnostics. Beilstein Journal of Nanotechnology, 2010, 1, 142-154.	2.8	87
14	Digital diffraction analysis enables low-cost molecular diagnostics on a smartphone. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5613-5618.	7.1	80
15	Miniaturized nuclear magnetic resonance platform for detection and profiling of circulating tumor cells. Lab on A Chip, 2014, 14, 14-23.	6.0	70
16	Visual and modular detection of pathogen nucleic acids with enzymeâ€“DNA molecular complexes. Nature Communications, 2018, 9, 3238.	12.8	68
17	Diagnostic technologies for circulating tumour cells and exosomes. Bioscience Reports, 2016, 36, e00292.	2.4	63
18	Carboxymethylated Polyvinyl Alcohol Stabilizes Doped Ferrofluids for Biological Applications. Advanced Materials, 2010, 22, 5168-5172.	21.0	59

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19	Large and small extracellular vesicles released by glioma cells in vitro and in vivo. Journal of Extracellular Vesicles, 2020, 9, 1689784.	12.2	57
20	Exosome-templated nanoplasmonics for multiparametric molecular profiling. Science Advances, 2020, 6, eaba2556.	10.3	56
21	Barcoded DNA nanostructures for the multiplexed profiling of subcellular protein distribution. Nature Biomedical Engineering, 2019, 3, 684-694.	22.5	53
22	Extracellular vesicle drug occupancy enables real-time monitoring of targeted cancer therapy. Nature Nanotechnology, 2021, 16, 734-742.	31.5	51
23	Self-assembled magnetic filter for highly efficient immunomagnetic separation. Lab on A Chip, 2011, 11, 147-151.	6.0	49
24	Nano-plasmonic exosome diagnostics. Expert Review of Molecular Diagnostics, 2015, 15, 725-733.	3.1	44
25	Microfluidic Cell Sorter (Î¼FCS) for Onâ€chip Capture and Analysis of Single Cells. Advanced Healthcare Materials, 2012, 1, 432-436.	7.6	43
26	A degradative to secretory autophagy switch mediates mitochondria clearance in the absence of the mATG8-conjugation machinery. Nature Communications, 2022, 13, .	12.8	40
27	Dual-Selective Magnetic Analysis of Extracellular Vesicle Glycans. Matter, 2020, 2, 150-166.	10.0	37
28	Facile synthesis of hybrid nanostructures from nanoparticles, nanorods and nanowires. Journal of Materials Chemistry, 2011, 21, 11478.	6.7	30
29	New Sensors for Extracellular Vesicles: Insights on Constituent and Associated Biomarkers. ACS Sensors, 2020, 5, 4-12.	7.8	29
30	Design and synthesis of magnetic nanoparticles for biomedical diagnostics. Quantitative Imaging in Medicine and Surgery, 2018, 8, 957-970.	2.0	24
31	Enantioselective hydrogenation of Î±-ketoesters over alkaloid-modified platinum nanowires. Green Chemistry, 2011, 13, 3070.	9.0	23
32	Accessible detection of SARS-CoV-2 through molecular nanostructures and automated microfluidics. Biosensors and Bioelectronics, 2021, 194, 113629.	10.1	21
33	Oxidation Kinetics and Magnetic Properties of Elemental Iron Nanoparticles. Particle and Particle Systems Characterization, 2013, 30, 667-671.	2.3	16
34	Microhexagon gradient array directs spatial diversification of spinal motor neurons. Theranostics, 2019, 9, 311-323.	10.0	16
35	Catalytic amplification by transition-state molecular switches for direct and sensitive detection of SARS-CoV-2. Science Advances, 2021, 7, .	10.3	14
36	Surfactant-guided spatial assembly of nano-architectures for molecular profiling of extracellular vesicles. Nature Communications, 2021, 12, 4039.	12.8	14

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37	Fabrication of circular assemblies with DNA tetrahedrons: from static structures to a dynamic rotary motor. Nucleic Acids Research, 2017, 45, 12090-12099.	14.5	11
38	Headâ€toâ€head comparison of amplified plasmonic exosome AÎ²42 platform and singleâ€molecule array immunoassay in a memory clinic cohort. European Journal of Neurology, 2021, 28, 1479-1489.	3.3	11
39	Biomarker Organization in Circulating Extracellular Vesicles: New Applications in Detecting Neurodegenerative Diseases. Advanced Biology, 2020, 4, e1900309.	3.0	10
40	Collaborative Equilibrium Coupling of Catalytic DNA Nanostructures Enables Programmable Detection of SARSâ€CoVâ€2. Advanced Science, 2021, 8, 2101155.	11.2	6
41	Voices of biotech research. Nature Biotechnology, 2021, 39, 281-286.	17.5	3
42	On-chip analysis of glioblastoma cell chemoresistance. , 2021, , 473-490.		0