Xiaonan Gao

List of Publications by Year in descending order

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50	1,777	304743	265206
papers	citations	22 h-index	42 g-index

52	52	52	2602
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Synthesis of Au Se bonded nanoprobe for specific detection of thrombin in lung cancer cells. Sensors and Actuators B: Chemical, 2022, 352, 130999.	7.8	1
2	A simple, rapid and low-cost qPCR assay for evaluating the severity of exosomal PD-L1-mediated T cell exhaustion in blood samples. Chemical Communications, 2022, 58, 831-834.	4.1	2
3	Acid-driven aggregation of selenol-functionalized zwitterionic gold nanoparticles improves the photothermal treatment efficacy of tumors. Materials Chemistry Frontiers, 2022, 6, 775-782.	5.9	2
4	Auâ€“Se bonded nanoprobe for prostate specific antigen detection in serum. Analytica Chimica Acta, 2022, 1210, 339852.	5.4	4
5	Visualization of the process: selenocysteine activates GPX4 in ferroptosis based on a nano-fluorescent probe. Science China Chemistry, 2022, 65, 1286-1290.	8.2	4
6	Tricolor imaging of MMPs to investigate the promoting roles of inflammation on invasion and migration of tumor cells. Talanta, 2021, 222, 121525.	5.5	13
7	Fishing out Methionine-Containing Proteins from Complex Biological Systems Based on a Non-Enzymatic Biochemical Reaction. Nano Letters, 2021, 21, 209-215.	9.1	4
8	Hydrogen selenide, a vital metabolite of sodium selenite, uncouples the sulfilimine bond and promotes the reversal of liver fibrosis. Science China Life Sciences, 2021, 64, 443-451.	4.9	7
9	Real-time in situ monitoring of Lon and Caspase-3 for assessing the state of cardiomyocytes under hypoxic conditions via a novel Auâ€“Se fluorescent nanoprobe. Biosensors and Bioelectronics, 2021, 176, 112965.	10.1	8
10	A mitochondria-targeting near-infrared fluorescent probe for imaging hypochlorous acid in cells. Talanta, 2021, 226, 122152.	5.5	37
11	A Mitochondrial-Targeting Near-Infrared Fluorescent Probe for Revealing the Effects of Hydrogen Peroxide And Heavy Metal Ions on Viscosity. Analytical Chemistry, 2021, 93, 9244-9249.	6.5	51
12	Monitoring the Activation of Caspases-1/3/4 for Describing the Pyroptosis Pathways of Cancer Cells. Analytical Chemistry, 2021, 93, 12022-12031.	6.5	9
13	Se-modified gold nanorods for enhancing the efficiency of photothermal therapy: avoiding the off-target problem induced by biothiols. Journal of Materials Chemistry B, 2021, 9, 8832-8841.	5.8	3
14	Real-time in situ monitoring of signal moleculesâ€™ evolution in apoptotic pathway via Auâ€“Se bond constructed nanoprobe. Biosensors and Bioelectronics, 2020, 147, 111755.	10.1	18
15	Simultaneous bioimaging of MMP-2 and MMP-7 via Au-Se constructed fluorescence nanoprobe. Science China Chemistry, 2020, 63, 135-140.	8.2	4
16	A differential study on oxidized/reduced ascorbic acid induced tumor cellsâ€™ apoptosis under hypoxia. Analyst, The, 2020, 145, 6363-6368.	3.5	4
17	Reconstruction of nano-flares based on Auâ€“Se bonds for high-fidelity detection of RNA in living cells. Chemical Communications, 2020, 56, 5178-5181.	4.1	12
18	Homotypic cell membrane-cloaked biomimetic nanocarrier for the accurate photothermal-chemotherapy treatment of recurrent hepatocellular carcinoma. Journal of Nanobiotechnology, 2020, 18, 60.	9.1	13

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19	Ascorbic acid induced HepG2 cells' apoptosis via intracellular reductive stress. Theranostics, 2019, 9, 4233-4240.	10.0	24
20	Homotypic Cell Membrane-Cloaked Biomimetic Nanocarrier for the Targeted Chemotherapy of Hepatocellular Carcinoma. Theranostics, 2019, 9, 5828-5838.	10.0	47
21	Effective Separation of Enantiomers Based on Novel Chiral Hierarchical Porous Metalâ€Organic Gels. Macromolecular Rapid Communications, 2019, 40, e1800862.	3.9	9
22	Unique Topology Analysis by ToposPro for a Metalâ€“Organic Framework with Multiple Coordination Centers. Inorganic Chemistry, 2019, 58, 3099-3106.	4.0	8
23	A fluorescent probe for simultaneously sensing NTR and hNQO1 and distinguishing cancer cells. Journal of Materials Chemistry B, 2019, 7, 6822-6827.	5.8	23
24	Dicyanoisophorone-Based Near-Infrared-Emission Fluorescent Probe for Detecting NAD(P)H in Living Cells and in Vivo. Analytical Chemistry, 2019, 91, 1368-1374.	6.5	61
25	Enhanced Photodynamic Therapy by Reduced Levels of Intracellular Glutathione Obtained By Employing a Nanoâ€MOF with Cu^{II} as the Active Center. Angewandte Chemie, 2018, 130, 4985-4990.	2.0	70
26	Auâ€“Se-Bond-Based Nanoprobe for Imaging MMP-2 in Tumor Cells under a High-Thiol Environment. Analytical Chemistry, 2018, 90, 4719-4724.	6.5	67
27	A mitochondria-targeted nanoradiosensitizer activating reactive oxygen species burst for enhanced radiation therapy. Chemical Science, 2018, 9, 3159-3164.	7.4	75
28	Reversing Multidrug Resistance by Multiplexed Gene Silencing for Enhanced Breast Cancer Chemotherapy. ACS Applied Materials & Interfaces, 2018, 10, 15461-15466.	8.0	55
29	Avoiding Thiol Compound Interference: A Nanoplatform Based on Highâ€Fidelity Auâ€“Se Bonds for Biological Applications. Angewandte Chemie, 2018, 130, 5404-5407.	2.0	22
30	Enhanced Photodynamic Therapy by Reduced Levels of Intracellular Glutathione Obtained By Employing a Nanoâ€MOF with Cu^{II} as the Active Center. Angewandte Chemie - International Edition, 2018, 57, 4891-4896.	13.8	259
31	A Highly Sensitive Strategy for Fluorescence Imaging of MicroRNA in Living Cells and in Vivo Based on Graphene Oxide-Enhanced Signal Molecules Quenching of Molecular Beacon. ACS Applied Materials & Interfaces, 2018, 10, 6982-6990.	8.0	71
32	Targetable Mesoporous Silica Nanoprobes for Mapping the Subcellular Distribution of H₂Se in Cancer Cells. ACS Applied Materials & Interfaces, 2018, 10, 17345-17351.	8.0	8
33	Avoiding Thiol Compound Interference: A Nanoplatform Based on Highâ€Fidelity Auâ€“Se Bonds for Biological Applications. Angewandte Chemie - International Edition, 2018, 57, 5306-5309.	13.8	100
34	Crystal structure of di-Ì¼₂-aqua-tetraaqua-bis(4-(1H-1,2,4-triazol-1-yl)benzoato-Î²N)disodium(I) C₁₈H₂₄N₆Na₂O₁₀. Zeitschrift Fur Kristallographie - New Crystal Structures, 2018, 233, 965-966.	0.3	1
35	Double-ratiometric fluorescence imaging of H₂Se and O₂Ë™^{â^'} under hypoxia for exploring Na₂SeO₃-induced HepG2 cells' apoptosis. RSC Advances, 2018, 8, 40984-40988.	3.6	6
36	Rheological and thermo-responsive characteristics of the mixed aqueous solution of gemini cationic surfactant and hydroxyl naphthalene carboxylic acid sodium. Soft Materials, 2018, 16, 303-314.	1.7	1

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37	Cyclic Regulation of the Sulfilimine Bond in Peptides and NC1 Hexamers via the HOBr/H₂Se Conjugated System. Analytical Chemistry, 2018, 90, 9523-9528.	6.5	12
38	A graphene-based fluorescent nanoprobe for simultaneous monitoring of miRNA and mRNA in living cells. Nanoscale, 2018, 10, 14264-14271.	5.6	54
39	Treatment of hyperphosphatemia based on specific interactions between phosphorus and Zr(<scp>iv</scp>) active centers of nano-MOFs. Chemical Science, 2018, 9, 7483-7487.	7.4	16
40	Nuclear-Targeted Photothermal Therapy Prevents Cancer Recurrence with Near-Infrared Triggered Copper Sulfide Nanoparticles. ACS Nano, 2018, 12, 5197-5206.	14.6	213
41	A DNA Tetrahedron Nanoprobe with Controlled Distance of Dyes for Multiple Detection in Living Cells and in Vivo. Analytical Chemistry, 2017, 89, 6670-6677.	6.5	64
42	Asymmetric Intermolecular Rauhutâ^'Currier Reaction for the Construction of 3,3â€Disubstituted Oxindoles with Quaternary Stereogenic Centers. Advanced Synthesis and Catalysis, 2017, 359, 3934-3939.	4.3	42
43	Visualizing Breast Cancer Cell Proliferation and Invasion for Assessing Drug Efficacy with a Fluorescent Nanoprobe. Analytical Chemistry, 2017, 89, 10601-10607.	6.5	27
44	Shape-Asymmetry Supramolecular Isomerism in Asymmetrical Ligand PCPs and the Expression Method of Three-Level Isomerism. Inorganic Chemistry, 2016, 55, 4330-4334.	4.0	14
45	Direct Cross-Linking of Au/Ag Alloy Nanoparticles into Monolithic Aerogels for Application in Surface-Enhanced Raman Scattering. ACS Applied Materials & Interfaces, 2016, 8, 13076-13085.	8.0	41
46	Synthesis of silicon dioxide, silicon, and silicon carbide mesoporous spheres from polystyrene sphere templates. Journal of Sol-Gel Science and Technology, 2015, 74, 575-584.	2.4	4
47	Oxidation-Induced Self-Assembly of Ag Nanoshells into Transparent and Opaque Ag Hydrogels and Aerogels. Journal of the American Chemical Society, 2014, 136, 7993-8002.	13.7	92
48	Salt-Mediated Self-Assembly of Metal Nanoshells into Monolithic Aerogel Frameworks. Chemistry of Materials, 2013, 25, 3528-3534.	6.7	75
49	Selective Recognition of Uracil and Its Derivatives Using a DNA Repair Enzyme Structural Mimic. Journal of Organic Chemistry, 2010, 75, 324-333.	3.2	19
50	Bis(Î¼-N-acetyl-N-phenylglycinato-Î²2O:Oâ€²)bis[dinitrato-Î²4O,Oâ€²-bis(1,10-phenanthroline-Î²2N,Nâ€²)lanthanum(III)]. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, m59-m59.	0.2	1