Yao He

List of Publications by Year in descending order

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103 papers	7,333 citations	53660 45 h-index	54797 84 g-index
111 all docs	111 docs citations	111 times ranked	8273 citing authors

#	Article	IF	Citations
1	Multifunctional Flavonoidâ€Silica Nanohydrogel Enables Simultaneous Inhibition of Tumor Recurrence and Bacterial Infection in Postâ€Surgical Treatment. Small, 2022, 18, e2104578.	5.2	7
2	Millisecondâ€Range Timeâ€Resolved Bioimaging Enabled through Ultralong Aqueous Phosphorescence Probes. Angewandte Chemie - International Edition, 2022, 61, .	7.2	15
3	Millisecondâ€Range Timeâ€Resolved Bioimaging Enabled through Ultralong Aqueous Phosphorescence Probes. Angewandte Chemie, 2022, 134, .	1.6	3
4	Bacteria eat nanoprobes for aggregation-enhanced imaging and killing diverse microorganisms. Nature Communications, 2022, 13, 1255.	5.8	33
5	In Situ Monitoring of Dynamic Photocatalysis of Metalâ€“Organic Frameworks by Three-Dimensional Shell-Isolated Nanoparticle-Enhanced Raman Spectroscopy. Analytical Chemistry, 2022, 94, 5699-5706.	3.2	11
6	Multi-Functional Hydrogels Simultaneously Featuring Strong Fluorescence, Ultralong Phosphorescence, and Excellent Self-Healing Properties and Their Use for Advanced Anti-counterfeiting. Analytical Chemistry, 2022, 94, 7264-7271.	3.2	10
7	Silicon-based nanoprobes cross the bloodâ€"brain barrier for photothermal therapy of glioblastoma. Nano Research, 2022, 15, 7392-7401.	5.8	8
8	Triboelectric current stimulation alleviates in vitro cell migration and in vivo tumor metastasis. Nano Energy, 2022, 100, 107471.	8.2	10
9	Fluorescent silicon nanoparticles-based nanotheranostic agents for rapid diagnosis and treatment of bacteria-induced keratitis. Nano Research, 2021, 14, 52-58.	5.8	26
10	Long-term fundus fluorescence angiography and real-time diagnosis of retinal diseases in non-human primate-animal models. Nano Research, 2021, 14, 3840.	5.8	7
11	Microfluidic synthesis of high-valence programmable atom-like nanoparticles for reliable sensing. Chemical Science, 2021, 12, 896-904.	3.7	5
12	Targeted Noninvasive Treatment of Choroidal Neovascularization by Hybrid Cell-Membrane-Cloaked Biomimetic Nanoparticles. ACS Nano, 2021, 15, 9808-9819.	7.3	53
13	Hydrothermal Synthesis of Zincâ€Doped Silica Nanospheres Simultaneously Featuring Stable Fluorescence and Longâ€Lived Roomâ€Temperature Phosphorescence. Angewandte Chemie, 2021, 133, 15618-15624.	1.6	4
14	Hydrothermal Synthesis of Zincâ€Doped Silica Nanospheres Simultaneously Featuring Stable Fluorescence and Longâ€Lived Roomâ€Temperature Phosphorescence. Angewandte Chemie - International Edition, 2021, 60, 15490-15496.	7.2	22
15	Ex vivo and in vivo fluorescence detection and imaging of adenosine triphosphate. Journal of Nanobiotechnology, 2021, 19, 187.	4.2	19
16	Fluorescent Silicon-based Nanomaterials Imaging Technology in Diseases. Chemical Research in Chinese Universities, 2021, 37, 880-888.	1.3	3
17	Rapid and Accurate Detection of Lymph Node Metastases Enabled through Fluorescent Silicon Nanoparticles-Based Exosome Probes. Analytical Chemistry, 2021, 93, 10122-10131.	3.2	19
18	Nanoparticles as a Hedgehog signaling inhibitor for the suppression of cancer growth and metastasis. Nanoscale, 2021, 13, 11077-11085.	2.8	2

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19	Dual-emission fluorescent silicon nanoparticle-based nanothermometer for ratiometric detection of intracellular temperature in living cells. Faraday Discussions, 2020, 222, 122-134.	1.6	8
20	Multi-modal anti-counterfeiting and encryption enabled through silicon-based materials featuring pH-responsive fluorescence and room-temperature phosphorescence. Nano Research, 2020, 13, 1614-1619.	5.8	37
21	Multifunctional nanoagents for ultrasensitive imaging and photoactive killing of Gram-negative and Gram-positive bacteria. Nature Communications, 2019, 10, 4057.	5.8	94
22	Fluorescent Silicon Nanorods-Based Nanotheranostic Agents for Multimodal Imaging-Guided Photothermal Therapy. Nano-Micro Letters, 2019, 11, 73.	14.4	29
23	Controllable silicon nanostructures featuring stable fluorescence and intrinsic in vitro and in vivo anti-cancer activity. Journal of Materials Chemistry B, 2019, 7, 6247-6256.	2.9	3
24	Fluorescein sodium ligand-modified silicon nanoparticles produce ultrahigh fluorescence with robust pH- and photo-stability. Chemical Communications, 2019, 55, 365-368.	2.2	19
25	Multifunctional Siliconâ€“Carbon Nanohybrids Simultaneously Featuring Bright Fluorescence, High Antibacterial and Wound Healing Activity. Small, 2019, 15, e1803200.	5.2	25
26	Aqueous synthesis of three-dimensional fluorescent silicon-based nanoscale networks featuring unusual anti-photobleaching properties. Chemical Communications, 2019, 55, 652-655.	2.2	4
27	Photostable and Biocompatible Fluorescent Silicon Nanoparticles for Imaging-Guided Co-Delivery of siRNA and Doxorubicin to Drug-Resistant Cancer Cells. Nano-Micro Letters, 2019, 11, 27.	14.4	36
28	Fluorescent silicon nanomaterials: from synthesis to functionalization and application. Nano Today, 2019, 26, 149-163.	6.2	53
29	Biomimetic preparation of coreâ€shell structured surfaceâ€enhanced Raman scattering substrate with antifouling ability, good stability, and reliable quantitative capability. Electrophoresis, 2019, 40, 2172-2179.	1.3	8
30	Dual-Amplification Strategy-Based SERS Chip for Sensitive and Reproducible Detection of DNA Methyltransferase Activity in Human Serum. Analytical Chemistry, 2019, 91, 3597-3603.	3.2	41
31	Silicon nanowire-based multifunctional platform for chemo-photothermal synergistic cancer therapy. Journal of Materials Chemistry B, 2018, 6, 3876-3883.	2.9	8
32	Excitation-wavelength-dependent photoluminescence of silicon nanoparticles enabled by adjustment of surface ligands. Chemical Communications, 2018, 54, 4947-4950.	2.2	35
33	Silicon nanohybrid-based SERS chips armed with an internal standard for broad-range, sensitive and reproducible simultaneous quantification of lead(<scp>ii</scp>) and mercury(<scp>ii</scp>) in real systems. Nanoscale, 2018, 10, 4010-4018.	2.8	72
34	Traditional Chinese medicine molecule-assisted chemical synthesis of fluorescent anti-cancer silicon nanoparticles. Nano Research, 2018, 11, 5629-5641.	5.8	16
35	Fluorescent and magnetic anti-counterfeiting realized by biocompatible multifunctional silicon nanoshuttle-based security ink. Nanoscale, 2018, 10, 1617-1621.	2.8	107
36	A Grapheneâ€“Silver Nanoparticleâ€“Silicon Sandwich SERS Chip for Quantitative Detection of Molecules and Capture, Discrimination, and Inactivation of Bacteria. Analytical Chemistry, 2018, 90, 5646-5653.	3.2	98

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37	The in vivo targeted molecular imaging of fluorescent silicon nanoparticles in Caenorhabditis elegans. Nano Research, 2018, 11, 2336-2346.	5.8	33
38	Doxorubicin-loaded silicon nanoparticles impregnated into red blood cells featuring bright fluorescence, strong photostability, and lengthened blood residency. Nano Research, 2018, 11, 2285-2294.	5.8	27
39	Distinct autophagy-inducing abilities of similar-sized nanoparticles in cell culture and liveC. elegans. Nanoscale, 2018, 10, 23059-23069.	2.8	9
40	Synergistic effects between silicon nanowires and doxorubicin at non-toxic doses lead to high-efficacy destruction of cancer cells. Journal of Materials Chemistry B, 2018, 6, 7378-7382.	2.9	4
41	Setting Up a Surface-Enhanced Raman Scattering Database for Artificial-Intelligence-Based Label-Free Discrimination of Tumor Suppressor Genes. Analytical Chemistry, 2018, 90, 14216-14221.	3.2	55
42	Biocompatible protamine sulfate@silicon nanoparticle-based gene nanocarriers featuring strong and stable fluorescence. Nanoscale, 2018, 10, 14455-14463.	2.8	16
43	Silicon Nanomaterials for Biosensing and Bioimaging Analysis. Frontiers in Chemistry, 2018, 6, 38.	1.8	80
44	Highly fluorescent, photostable, and biocompatible silicon theranostic nanoprobes against Staphylococcus aureus infections. Nano Research, 2018, 11, 6417-6427.	5.8	29
45	Photostable and Biocompatible Fluorescent Silicon Nanoparticles-Based Theranostic Probes for Simultaneous Imaging and Treatment of Ocular Neovascularization. Analytical Chemistry, 2018, 90, 8188-8195.	3.2	37
46	In vitro cellular behaviors and toxicity assays of small-sized fluorescent silicon nanoparticles. Nanoscale, 2017, 9, 7602-7611.	2.8	41
47	In Situ Live-Cell Nucleus Fluorescence Labeling with Bioinspired Fluorescent Probes. Analytical Chemistry, 2017, 89, 7861-7868.	3.2	26
48	One-dimensional silicon nanoshuttles simultaneously featuring fluorescent and magnetic properties. Chemical Communications, 2017, 53, 6957-6960.	2.2	9
49	Portable and Reliable Surface-Enhanced Raman Scattering Silicon Chip for Signal-On Detection of Trace Trinitrotoluene Explosive in Real Systems. Analytical Chemistry, 2017, 89, 5072-5078.	3.2	108
50	Silk Nanofibers as Robust and Versatile Emulsifiers. ACS Applied Materials & Interfaces, 2017, 9, 35693-35700.	4.0	20
51	Different toxicity of cadmium telluride, silicon, and carbon nanomaterials against hemocytes in silkworm, Bombyx mori. RSC Advances, 2017, 7, 50317-50327.	1.7	16
52	Fluorescent Silicon Nanorods-Based Ratiometric Sensors for Long-Term and Real-Time Measurements of Intracellular pH in Live Cells. Analytical Chemistry, 2017, 89, 12152-12159.	3.2	51
53	Reusable Silicon-Based Surface-Enhanced Raman Scattering Ratiometric Aptasensor with High Sensitivity, Specificity, and Reproducibility. Analytical Chemistry, 2017, 89, 10279-10285.	3.2	49
54	Highly sensitive and reproducible silicon-based surface-enhanced Raman scattering sensors for real applications. Analyst, The, 2016, 141, 5010-5019.	1.7	30

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55	Ultrasensitive, Specific, Recyclable, and Reproducible Detection of Lead Ions in Real Systems through a Polyadenine-Assisted, Surface-Enhanced Raman Scattering Silicon Chip. Analytical Chemistry, 2016, 88, 3723-3729.	3.2	99
56	Plant-derived fluorescent silicon nanoparticles featuring excitation wavelength-dependent fluorescence spectra for anti-counterfeiting applications. Chemical Communications, 2016, 52, 7047-7050.	2.2	65
57	In situ rapid growth of fluorescent silicon nanoparticles at room temperature and under atmospheric pressure. Chemical Communications, 2016, 52, 13444-13447.	2.2	14
58	Fluorescent silicon nanoparticle-based gene carriers featuring strong photostability and feeble cytotoxicity. Nano Research, 2016, 9, 3027-3037.	5.8	19
59	Fluorescent and Photostable Silicon Nanoparticles Sensors for Real-Time and Long-Term Intracellular pH Measurement in Live Cells. Analytical Chemistry, 2016, 88, 9235-9242.	3.2	72
60	Waterâ€Dispersible Fluorescent Silicon Nanoparticles and their Optical Applications. Advanced Materials, 2016, 28, 10567-10574.	11.1	81
61	Impact of fluorescent silicon nanoparticles on circulating hemolymph and hematopoiesis in an invertebrate model organism. Chemosphere, 2016, 159, 628-637.	4.2	21
62	Reproductive toxicity and gender differences induced by cadmium telluride quantum dots in an invertebrate model organism. Scientific Reports, 2016, 6, 34182.	1.6	29
63	One-Dimensional Fluorescent Silicon Nanorods Featuring Ultrahigh Photostability, Favorable Biocompatibility, and Excitation Wavelength-Dependent Emission Spectra. Journal of the American Chemical Society, 2016, 138, 4824-4831.	6.6	88
64	Fluorescent silicon nanoparticles utilized as stable color converters for white light-emitting diodes. Applied Physics Letters, 2015, 106, .	1.5	25
65	A Poly Adenine-Mediated Assembly Strategy for Designing Surface-Enhanced Resonance Raman Scattering Substrates in Controllable Manners. Analytical Chemistry, 2015, 87, 6631-6638.	3.2	47
66	Facile, Large-Quantity Synthesis of Stable, Tunable-Color Silicon Nanoparticles and Their Application for Long-Term Cellular Imaging. ACS Nano, 2015, 9, 5958-5967.	7.3	209
67	Peptide-Conjugated Fluorescent Silicon Nanoparticles Enabling Simultaneous Tracking and Specific Destruction of Cancer Cells. Analytical Chemistry, 2015, 87, 6718-6723.	3.2	71
68	Silicon nanostructures for cancer diagnosis and therapy. Nanomedicine, 2015, 10, 2109-2123.	1.7	25
69	Simultaneous Capture, Detection, and Inactivation of Bacteria as Enabled by a Surfaceâ€Enhanced Raman Scattering Multifunctional Chip. Angewandte Chemie - International Edition, 2015, 54, 5132-5136.	7.2	203
70	Biomimetic Preparation and Dual-Color Bioimaging of Fluorescent Silicon Nanoparticles. Journal of the American Chemical Society, 2015, 137, 14726-14732.	6.6	111
71	A real-time documentation and mechanistic investigation of quantum dots-induced autophagy in live Caenorhabditis elegans. Biomaterials, 2015, 72, 38-48.	5.7	30
72	Surface-Enhancement Raman Scattering Sensing Strategy for Discriminating Trace Mercuric Ion (II) from Real Water Samples in Sensitive, Specific, Recyclable, and Reproducible Manners. Analytical Chemistry, 2015, 87, 1250-1256.	3.2	88

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73	Highly Fluorescent, Photostable, and Ultrasmall Silicon Drug Nanocarriers for Longâ€Term Tumor Cell Tracking and Inâ€Vivo Cancer Therapy. Advanced Materials, 2015, 27, 1029-1034.	11.1	105
74	Autophagyâ€Sensitized Cytotoxicity of Quantum Dots in PC12 Cells. Advanced Healthcare Materials, 2014, 3, 354-359.	3.9	48
75	Silicon Nanomaterials Platform for Bioimaging, Biosensing, and Cancer Therapy. Accounts of Chemical Research, 2014, 47, 612-623.	7.6	445
76	Silicon nanowire-based therapeutic agents for in vivo tumor near-infrared photothermal ablation. Journal of Materials Chemistry B, 2014, 2, 2892.	2.9	5
77	Reactive ion etching-assisted surface-enhanced Raman scattering measurements on the single nanoparticle level. Applied Physics Letters, 2014, 104, .	1.5	30
78	Hairpin DNA-Assisted Silicon/Silver-Based Surface-Enhanced Raman Scattering Sensing Platform for Ultrahighly Sensitive and Specific Discrimination of Deafness Mutations in a Real System. Analytical Chemistry, 2014, 86, 7368-7376.	3.2	35
79	Silicon Nanohybridâ€based Surfaceâ€enhanced Raman Scattering Sensors. Small, 2014, 10, 4455-4468.	5.2	64
80	Doxorubicin-loaded silicon nanowires for the treatment of drug-resistant cancer cells. Biomaterials, 2014, 35, 5188-5195.	5.7	64
81	Hematopoiesis toxicity induced by CdTe quantum dots determined inÂan invertebrate model organism. Biomaterials, 2014, 35, 2942-2951.	5.7	56
82	Surface-Modified Silicon Nanoparticles with Ultrabright Photoluminescence and Single-Exponential Decay for Nanoscale Fluorescence Lifetime Imaging of Temperature. Journal of the American Chemical Society, 2013, 135, 14924-14927.	6.6	174
83	Siliconâ€Nanowireâ€Based Nanocarriers with Ultrahigh Drugâ€Loading Capacity for Inâ€...Vitro and Inâ€...Vivo Cancer Therapy. Angewandte Chemie - International Edition, 2013, 52, 1457-1461.	7.2	115
84	Large-Scale Aqueous Synthesis of Fluorescent and Biocompatible Silicon Nanoparticles and Their Use as Highly Photostable Biological Probes. Journal of the American Chemical Society, 2013, 135, 8350-8356.	6.6	386
85	A Molecular Beaconâ€Based Signalâ€Off Surfaceâ€Enhanced Raman Scattering Strategy for Highly Sensitive, Reproducible, and Multiplexed DNA Detection. Small, 2013, 9, 2493-2499.	5.2	87
86	Surface-Enhanced Raman Scattering-Based Sensing In Vitro: Facile and Label-Free Detection of Apoptotic Cells at the Single-Cell Level. Analytical Chemistry, 2013, 85, 2809-2816.	3.2	85
87	Gold Nanoparticles-Decorated Silicon Nanowires as Highly Efficient Near-Infrared Hyperthermia Agents for Cancer Cells Destruction. Nano Letters, 2012, 12, 1845-1850.	4.5	162
88	Microwaveâ€Assisted Synthesis of Biofunctional and Fluorescent Silicon Nanoparticles Using Proteins as Hydrophilic Ligands. Angewandte Chemie - International Edition, 2012, 51, 8485-8489.	7.2	123
89	One-Pot Microwave Synthesis of Water-Dispersible, Ultraphoto- and pH-Stable, and Highly Fluorescent Silicon Quantum Dots. Journal of the American Chemical Society, 2011, 133, 14192-14195.	6.6	249
90	Highly Luminescent Waterâ€Dispersible Silicon Nanowires for Longâ€Term Immunofluorescent Cellular Imaging. Angewandte Chemie - International Edition, 2011, 50, 3080-3083.	7.2	60

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91	Back Cover: Highly Luminescent Waterâ€Dispersible Silicon Nanowires for Longâ€Term Immunofluorescent Cellular Imaging (Angew. Chem. Int. Ed. 13/2011). Angewandte Chemie - International Edition, 2011, 50, 3090-3090.	7.2	0
92	Silicon nanowires-based highly-efficient SERS-active platform for ultrasensitive DNA detection. Nano Today, 2011, 6, 122-130.	6.2	257
93	Silicon nanostructures for bioapplications. Nano Today, 2010, 5, 282-295.	6.2	256
94	The cytotoxicity of CdTe quantum dots and the relative contributions from released cadmium ions and nanoparticle properties. Biomaterials, 2010, 31, 4829-4834.	5.7	265
95	Ultrasensitive, Multiplexed Detection of Cancer Biomarkers Directly in Serum by Using a Quantum Dot-Based Microfluidic Protein Chip. ACS Nano, 2010, 4, 488-494.	7.3	242
96	Innentitelbild: Ultrastable, Highly Fluorescent, and Water-Dispersed Silicon-Based Nanospheres as Cellular Probes (Angew. Chem. 1/2009). Angewandte Chemie, 2009, 121, 2-2.	1.6	0
97	Ultrastable, Highly Fluorescent, and Waterâ€Dispersed Siliconâ€Based Nanospheres as Cellular Probes. Angewandte Chemie - International Edition, 2009, 48, 128-132.	7.2	167
98	Inside Cover: Ultrastable, Highly Fluorescent, and Water-Dispersed Silicon-Based Nanospheres as Cellular Probes (Angew. Chem. Int. Ed. 1/2009). Angewandte Chemie - International Edition, 2009, 48, 2-2.	7.2	77
99	Photo and pH Stable, Highly-Luminescent Silicon Nanospheres and Their Bioconjugates for Immunofluorescent Cell Imaging. Journal of the American Chemical Society, 2009, 131, 4434-4438.	6.6	193
100	Microwave Synthesis of Waterâ€Dispersed CdTe/CdS/ZnS Coreâ€Shellâ€Shell Quantum Dots with Excellent Photostability and Biocompatibility. Advanced Materials, 2008, 20, 3416-3421.	11.1	261
101	Microwave-Assisted Synthesis of Water-Dispersed CdTe Nanocrystals with High Luminescent Efficiency and Narrow Size Distribution. Chemistry of Materials, 2007, 19, 359-365.	3.2	181
102	Synthesis of CdTe Nanocrystals through Program Process of Microwave Irradiation. Journal of Physical Chemistry B, 2006, 110, 13352-13356.	1.2	118
103	Controllable synthesis of siliconâ€based nanohybrids for reliable surfaceâ€enhanced Raman scattering sensing. Chinese Journal of Chemistry, 0, , .	2.6	4