

Gold Nanorods for Ovarian Cancer Detection with Phot Guidance *via* Raman Imaging in Living Mice

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Citation Report

#	ARTICLE	IF	CITATIONS
2	Structural and Equilibrium Effects of the Surface Passivant on the Stability of Au Nanorods. ACS Applied Materials & Interfaces, 2013, 5, 7906-7914.	4.0	19
3	Raman spectroscopy in nanomedicine: current status and future perspective. Nanomedicine, 2013, 8, 1335-1351.	1.7	45
4	Molecular imaging with surface-enhanced Raman spectroscopy nanoparticle reporters. MRS Bulletin, 2013, 38, 625-630.	1.7	13
5	Prussian blue nanoparticles operate as a contrast agent for enhanced photoacoustic imaging. Chemical Communications, 2013, 49, 11029.	2.2	99
6	Doxorubicin loading on graphene oxide, iron oxide and gold nanoparticle hybrid. Journal of Materials Chemistry B, 2013, 1, 6187.	2.9	49
7	Sensitive Single Particle Method for Characterizing Rapid Rotational and Translational Diffusion and Aspect Ratio of Anisotropic Nanoparticles and Its Application in Immunoassays. Analytical Chemistry, 2013, 85, 9433-9438.	3.2	40
8	The evaluation of NIR-absorbing porphyrin derivatives as contrast agents in photoacoustic imaging. Physical Chemistry Chemical Physics, 2013, 15, 18502.	1.3	75
9	Size- and Ligand-Specific Bioresponse of Gold Clusters and Nanoparticles: Challenges and Perspectives. Structure and Bonding, 2013, , 189-241.	1.0	8
10	Gold nanoparticles (GNPs) as multifunctional materials for cancer treatment. , 2013, , 349-389e.		9
11	Diameter Dependence of the Excitation Spectra of Silver and Gold Nanorods. Journal of Physical Chemistry C, 2013, 117, 12325-12336.	1.5	64
12	Synthesis and characterization of surface-enhanced Raman-scattered gold nanoparticles. International Journal of Nanomedicine, 2013, 8, 4327.	3.3	22
13	Development of Nanoscale Approaches for Ovarian Cancer Therapeutics and Diagnostics. Critical Reviews in Oncogenesis, 2014, 19, 281-315.	0.2	37
14	Novel Biodegradable Polymer Tethered Platinum (II) for Photoacoustic Imaging. Journal of Nanomedicine & Nanotechnology, 2014, 05, .	1.1	0
15	In vitro assessment of antibody-conjugated gold nanorods for systemic injections. Journal of Nanobiotechnology, 2014, 12, 55.	4.2	41
16	Characterization of the thermalisation efficiency and photostability of photoacoustic contrast agents. Proceedings of SPIE, 2014, , .	0.8	8
17	Applications of Nanoparticles in Nanomedicine. Journal of Biomedical Nanotechnology, 2014, 10, 2371-2392.	0.5	83
18	Nano-Confined Squaraine Dye Assemblies: New Photoacoustic and Near-Infrared Fluorescence Dual-Modular Imaging Probes in Vivo. Bioconjugate Chemistry, 2014, 25, 2021-2029.	1.8	71
19	Core-Shell Pd@Au Nanoplates as Theranostic Agents for In Vivo Photoacoustic Imaging, CT Imaging, and Photothermal Therapy. Advanced Materials, 2014, 26, 8210-8216.	11.1	383

#	ARTICLE	IF	CITATIONS
20	Cellulose nanoparticles: photoacoustic contrast agents that biodegrade to simple sugars. Proceedings of SPIE, 2014, , .	0.8	1
21	Methylene blue microbubbles as a model dual-modality contrast agent for ultrasound and activatable photoacoustic imaging. Journal of Biomedical Optics, 2014, 19, 016005.	1.4	87
22	Emerging technology: applications of Raman spectroscopy for prostate cancer. Cancer and Metastasis Reviews, 2014, 33, 673-693.	2.7	80
23	Ligand Exchange on Gold Nanorods: Going Back to the Future. Particle and Particle Systems Characterization, 2014, 31, 819-838.	1.2	77
24	Targeted immunomodulation using antigen-conjugated nanoparticles. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2014, 6, 298-315.	3.3	37
25	Gold nanorods-bombesin conjugate as a potential targeted imaging agent for detection of breast cancer. Journal of Photochemistry and Photobiology B: Biology, 2014, 130, 40-46.	1.7	36
26	Optimizing Au/Ag core-shell nanorods: purification, stability, and surface modification. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	9
27	The potential legacy of cancer nanotechnology: cellular selection. Trends in Biotechnology, 2014, 32, 21-31.	4.9	34
28	Advances in Biomedical Raman Microscopy. Analytical Chemistry, 2014, 86, 30-46.	3.2	102
29	Emerging advances in nanomedicine with engineered gold nanostructures. Nanoscale, 2014, 6, 2502.	2.8	258
30	A targeted approach to cancer imaging and therapy. Nature Materials, 2014, 13, 110-115.	13.3	247
31	Paper-based plasmonic platform for sensitive, noninvasive, and rapid cancer screening. Biosensors and Bioelectronics, 2014, 54, 128-134.	5.3	62
32	Chondroitin sulfate-capped gold nanoparticles for the oral delivery of insulin. International Journal of Biological Macromolecules, 2014, 63, 15-20.	3.6	76
33	Semiconducting polymer nanoparticles as photoacoustic molecular imaging probes in living mice. Nature Nanotechnology, 2014, 9, 233-239.	15.6	1,057
34	Highly enhanced electrochemiluminescence based on pseudo triple-enzyme cascade catalysis and in situ generation of co-reactant for thrombin detection. Analyst, The, 2014, 139, 1030-1036.	1.7	15
35	Toxicity of Gold Nanoparticles. Comprehensive Analytical Chemistry, 2014, , 207-254.	0.7	9
36	siRNA liposome-gold nanorod vectors for multispectral optoacoustic tomography theranostics. Nanoscale, 2014, 6, 13451-13456.	2.8	30
37	Organized Solid Thin Films of Gold Nanorods with Different Sizes for Surface-Enhanced Raman Scattering Applications. Journal of Physical Chemistry C, 2014, 118, 28095-28100.	1.5	21

#	ARTICLE	IF	CITATIONS
38	One-step synthesis of silver nanoshells with bumps for highly sensitive near-IR SERS nanoprobos. <i>Journal of Materials Chemistry B</i> , 2014, 2, 4415-4421.	2.9	51
39	Organometallic carbonyl clusters: a new class of contrast agents for photoacoustic cerebral vascular imaging. <i>Chemical Communications</i> , 2014, 50, 2601-2603.	2.2	19
40	Poly(Acrylic Acid)-Capped and Dye-Loaded Graphene Oxide-Mesoporous Silica: A Nano-Sandwich for Two-Photon and Photoacoustic Dual-Mode Imaging. <i>Particle and Particle Systems Characterization</i> , 2014, 31, 1060-1066.	1.2	24
41	Noble Metal Nanoparticle Platform. , 2014, , 327-346.		7
42	Cellulose nanoparticles are a biodegradable photoacoustic contrast agent for use in living mice. <i>Photoacoustics</i> , 2014, 2, 119-127.	4.4	48
43	Thermal stability of mesoporous silica-coated gold nanorods with different aspect ratios. <i>Materials Chemistry and Physics</i> , 2014, 148, 909-913.	2.0	27
44	Inhibition of Cancer Cell Migration by Gold Nanorods: Molecular Mechanisms and Implications for Cancer Therapy. <i>Advanced Functional Materials</i> , 2014, 24, 6922-6932.	7.8	69
45	Structural and functional photoacoustic molecular tomography aided by emerging contrast agents. <i>Chemical Society Reviews</i> , 2014, 43, 7132-7170.	18.7	346
46	Nanostructured materials for applications in surface-enhanced Raman scattering. <i>CrystEngComm</i> , 2014, 16, 9959-9973.	1.3	31
47	Upconversion Nanoparticles as a Contrast Agent for Photoacoustic Imaging in Live Mice. <i>Advanced Materials</i> , 2014, 26, 5633-5638.	11.1	158
48	Cellular uptake behaviour, photothermal therapy performance, and cytotoxicity of gold nanorods with various coatings. <i>Nanoscale</i> , 2014, 6, 11462-11472.	2.8	92
49	NIR-light-induced surface-enhanced Raman scattering for detection and photothermal/photodynamic therapy of cancer cells using methylene blue-embedded gold nanorod@SiO ₂ nanocomposites. <i>Biomaterials</i> , 2014, 35, 3309-3318.	5.7	175
50	Multidentate Polyethylene Glycol Modified Gold Nanorods for in Vivo Near-Infrared Photothermal Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 5657-5668.	4.0	94
51	Magneto-Plasmonic Au-Fe Alloy Nanoparticles Designed for Multimodal SERS-MRI-CT Imaging. <i>Small</i> , 2014, 10, 2476-2486.	5.2	156
52	Fluorescent imaging of cancerous tissues for targeted surgery. <i>Advanced Drug Delivery Reviews</i> , 2014, 76, 21-38.	6.6	104
53	Light In and Sound Out: Emerging Translational Strategies for Photoacoustic Imaging. <i>Cancer Research</i> , 2014, 74, 979-1004.	0.4	390
54	Deterministic nanoparticle assemblies: from substrate to solution. <i>Nanotechnology</i> , 2014, 25, 155302.	1.3	4
55	Mesoporous Silica-Coated Plasmonic Nanostructures for Surface-Enhanced Raman Scattering Detection and Photothermal Therapy. <i>Advanced Healthcare Materials</i> , 2014, 3, 1620-1628.	3.9	65

#	ARTICLE	IF	CITATIONS
56	The optical, photothermal, and facile surface chemical properties of gold and silver nanoparticles in biodiagnostics, therapy, and drug delivery. Archives of Toxicology, 2014, 88, 1391-1417.	1.9	347
57	Construction and Validation of Nano Gold Tripods for Molecular Imaging of Living Subjects. Journal of the American Chemical Society, 2014, 136, 3560-3571.	6.6	170
58	Competitive Reaction Pathway for Site-Selective Conjugation of Raman Dyes to Hotspots on Gold Nanorods for Greatly Enhanced SERS Performance. Small, 2014, 10, 4012-4019.	5.2	21
59	Highly surface functionalized carbon nano-onions for bright light bioimaging. Methods and Applications in Fluorescence, 2015, 3, 044005.	1.1	40
60	Multi-Functionalized Carbon Nano-onions as Imaging Probes for Cancer Cells. Chemistry - A European Journal, 2015, 21, 19071-19080.	1.7	74
61	Gold Nanoparticles for Cancer Theranostics. Chinese Journal of Chemistry, 2015, 33, 1001-1010.	2.6	26
62	Gold-based SERS tags for biomedical imaging. Journal of Optics (United Kingdom), 2015, 17, 114002.	1.0	70
63	Synthesis, Modification, and Biosensing Characteristics of Au ₂ S/AuAgS-Coated Gold Nanorods. Journal of Nanomaterials, 2015, 2015, 1-8.	1.5	1
64	Nanoparticle Probes for Structural and Functional Photoacoustic Molecular Tomography. BioMed Research International, 2015, 2015, 1-11.	0.9	23
65	Oscillatory Dynamics and In Vivo Photoacoustic Imaging Performance of Plasmonic Nanoparticle-Coated Microbubbles. Small, 2015, 11, 3066-3077.	5.2	44
66	Non-covalent functionalization of carbon nano-onions with pyrene-BODIPY dyads for biological imaging. RSC Advances, 2015, 5, 50253-50258.	1.7	51
67	MicroRNA-Responsive Cancer Cell Imaging and Therapy with Functionalized Gold Nanoprobe. ACS Applied Materials & Interfaces, 2015, 7, 19016-19023.	4.0	38
68	Transcriptomic analysis of human breast cancer cells reveals differentially expressed genes and related cellular functions and pathways in response to gold nanorods. Biophysics Reports, 2015, 1, 106-114.	0.2	4
69	Wide-field multiplexed imaging of EGFR-targeted cancers using topical application of NIR SERS nanoprobe. Nanomedicine, 2015, 10, 89-101.	1.7	38
70	Gold nanoparticles for photoacoustic imaging. Nanomedicine, 2015, 10, 299-320.	1.7	477
71	Single Molecule with Dual Function on Nanogold: Biofunctionalized Construct for In Vivo Photoacoustic Imaging and SERS Biosensing. Advanced Functional Materials, 2015, 25, 2316-2325.	7.8	65
72	Raman Reporter-Coupled Ag _{core} @Au _{shell} Nanostars for In Vivo Improved Surface Enhanced Raman Scattering Imaging and Near-infrared-Triggered Photothermal Therapy in Breast Cancers. ACS Applied Materials & Interfaces, 2015, 7, 16781-16791.	4.0	70
73	Nanomaterial-based activatable imaging probes: from design to biological applications. Chemical Society Reviews, 2015, 44, 7855-7880.	18.7	138

#	ARTICLE	IF	CITATIONS
74	Molecular photoacoustic imaging of breast cancer using an actively targeted conjugated polymer. <i>International Journal of Nanomedicine</i> , 2015, 10, 387.	3.3	41
75	Multifunctional gold nanostar-based nanocomposite: Synthesis and application for noninvasive MR-SERS imaging-guided photothermal ablation. <i>Biomaterials</i> , 2015, 60, 31-41.	5.7	89
76	Aqueous synthesis of PEGylated copper sulfide nanoparticles for photoacoustic imaging of tumors. <i>Nanoscale</i> , 2015, 7, 11075-11081.	2.8	68
77	PLLA Nanofibrous Paper-Based Plasmonic Substrate with Tailored Hydrophilicity for Focusing SERS Detection. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 5391-5399.	4.0	109
78	Dye-free near-infrared surface-enhanced Raman scattering nanoprobe for bioimaging and high-performance photothermal cancer therapy. <i>Nanoscale</i> , 2015, 7, 6754-6761.	2.8	44
79	Imaging-guided high-efficient photoacoustic tumor therapy with targeting gold nanorods. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015, 11, 1499-1509.	1.7	70
80	Large-scale, low-cost synthesis of monodispersed gold nanorods using a gemini surfactant. <i>Nanoscale</i> , 2015, 7, 6790-6797.	2.8	31
81	Rational design of a chalcogenopyrylium-based surface-enhanced resonance Raman scattering nanoprobe with attomolar sensitivity. <i>Nature Communications</i> , 2015, 6, 6570.	5.8	110
82	Parts per billion detection of uranium with a porphyrinoid-containing nanoparticle and in vivo photoacoustic imaging. <i>Analyst</i> , 2015, 140, 3731-3737.	1.7	55
83	Biofunctionalization of Large Gold Nanorods Realizes Ultrahigh-Sensitivity Optical Imaging Agents. <i>Langmuir</i> , 2015, 31, 12339-12347.	1.6	36
84	Surface-enhanced Raman scattering imaging of cancer cells and tissues via sialic acid-imprinted nanotags. <i>Chemical Communications</i> , 2015, 51, 17696-17699.	2.2	125
85	Real-Time Monitoring <i>in Vivo</i> Behaviors of Theranostic Nanoparticles by Contrast-Enhanced T ₁ Imaging. <i>Analytical Chemistry</i> , 2015, 87, 8941-8948.	3.2	24
86	Rational Design and Synthesis of $\text{Fe}_2\text{O}_3@Au$ Magnetic Gold Nanoflowers for Efficient Cancer Theranostics. <i>Advanced Materials</i> , 2015, 27, 5049-5056.	11.1	135
87	Photoacoustic- and Magnetic Resonance-Guided Photothermal Therapy and Tumor Vasculature Visualization Using Theranostic Magnetic Gold Nanoshells. <i>Journal of Biomedical Nanotechnology</i> , 2015, 11, 1442-1450.	0.5	18
88	Probing molecular cell event dynamics at the single-cell level with targeted plasmonic gold nanoparticles: A review. <i>Nano Today</i> , 2015, 10, 542-558.	6.2	76
89	SERS Nanoparticles in Medicine: From Label-Free Detection to Spectroscopic Tagging. <i>Chemical Reviews</i> , 2015, 115, 10489-10529.	23.0	712
90	Computational investigation of the ligand field effect to improve the photoacoustic properties of organometallic carbonyl clusters. <i>RSC Advances</i> , 2015, 5, 31575-31583.	1.7	16
91	Fast photoacoustic-guided depth-resolved Raman spectroscopy: a feasibility study. <i>Optics Letters</i> , 2015, 40, 3568.	1.7	23

#	ARTICLE	IF	CITATIONS
92	Engineered Hybrid Nanoparticles for On-Demand Diagnostics and Therapeutics. <i>Accounts of Chemical Research</i> , 2015, 48, 3016-3025.	7.6	130
93	Recent Advances in Near-Infrared Absorption Nanomaterials as Photoacoustic Contrast Agents for Biomedical Imaging. <i>Chinese Journal of Chemistry</i> , 2015, 33, 35-52.	2.6	42
94	Smart Supramolecular Nanosystems for Bioimaging and Drug Delivery. <i>Chinese Journal of Chemistry</i> , 2015, 33, 59-70.	2.6	17
95	The many facets of Raman spectroscopy for biomedical analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 699-717.	1.9	149
96	Recent Advances in Optical Imaging with Anisotropic Plasmonic Nanoparticles. <i>Analytical Chemistry</i> , 2015, 87, 200-215.	3.2	72
97	Development of nanostars as a biocompatible tumor contrast agent: toward in vivo SERS imaging. <i>International Journal of Nanomedicine</i> , 2016, Volume 11, 3703-3714.	3.3	30
98	A Multimodal Imaging Approach for Longitudinal Evaluation of Bladder Tumor Development in an Orthotopic Murine Model. <i>PLoS ONE</i> , 2016, 11, e0161284.	1.1	17
99	SERS Tags: The Next Promising Tool for Personalized Cancer Detection?. <i>ChemNanoMat</i> , 2016, 2, 249-258.	1.5	81
100	Multifunctional pDNA-Conjugated Polycationic Au Nanorod-Coated Fe ₃ O ₄ Hierarchical Nanocomposites for Trimodal Imaging and Combined Photothermal/Gene Therapy. <i>Small</i> , 2016, 12, 2459-2468.	5.2	61
101	Chemo/Photoacoustic Dual Therapy with mRNA-Triggered DOX Release and Photoinduced Shockwave Based on a DNA-Gold Nanoplatfom. <i>Small</i> , 2016, 12, 756-769.	5.2	41
102	Cancer-Targeted Nanotheranostics: Recent Advances and Perspectives. <i>Small</i> , 2016, 12, 4936-4954.	5.2	158
103	Tunable and amplified Raman gold nanoprobe for effective tracking (TARGET): in vivo sensing and imaging. <i>Nanoscale</i> , 2016, 8, 8486-8494.	2.8	29
104	Long circulating reduced graphene oxide-iron oxide nanoparticles for efficient tumor targeting and multimodality imaging. <i>Nanoscale</i> , 2016, 8, 12683-12692.	2.8	58
105	Size, shape and surface chemistry of nano-gold dictate its cellular interactions, uptake and toxicity. <i>Progress in Materials Science</i> , 2016, 83, 152-190.	16.0	135
106	Molecular Imaging of Ovarian Cancer. <i>Journal of Nuclear Medicine</i> , 2016, 57, 827-833.	2.8	17
107	Remarkable In Vivo Nonlinear Photoacoustic Imaging Based on Near-Infrared Organic Dyes. <i>Small</i> , 2016, 12, 5239-5244.	5.2	31
108	Metallic and Upconversion Nanoparticles as Photoacoustic Contrast Agents for Biomedical Imaging. , 2016, , 1199-1222.		0
109	A comparative study on the nanoparticles for improved drug delivery systems. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 162, 681-693.	1.7	49

#	ARTICLE	IF	CITATIONS
110	Contrast agents for molecular photoacoustic imaging. Nature Methods, 2016, 13, 639-650.	9.0	979
111	The thermal stability mechanism of gold nanorods in aqueous solution. Optik, 2016, 127, 10343-10347.	1.4	8
112	Emerging Designs of Activatable Photoacoustic Probes for Molecular Imaging. Bioconjugate Chemistry, 2016, 27, 2808-2823.	1.8	158
113	Surface Enhanced Raman Scattering (SERS) Nanoprobes as Cancer Theranostics. , 2016, , 177-204.		0
114	A review of Raman spectroscopy advances with an emphasis on clinical translation challenges in oncology. Physics in Medicine and Biology, 2016, 61, R370-R400.	1.6	103
115	Nanoparticles for Multi-Modality Imaging. , 2016, , 189-239.		0
116	Noble Metal Nanoparticles as SERS Tags: Fundamentals and Biomedical Applications. , 2016, , 67-101.		0
117	Preparation and Photoacoustic Analysis of Cellular Vehicles Containing Gold Nanorods. Journal of Visualized Experiments, 2016, , .	0.2	4
118	Semiconducting Oligomer Nanoparticles as an Activatable Photoacoustic Probe with Amplified Brightness for In Vivo Imaging of pH. Advanced Materials, 2016, 28, 3662-3668.	11.1	248
119	Nanoparticles in practice for molecular-imaging applications: An overview. Acta Biomaterialia, 2016, 41, 1-16.	4.1	175
120	Double functional aptamer switch probes based on gold nanorods for intracellular ATP detection and targeted drugs transportation. Sensors and Actuators B: Chemical, 2016, 235, 655-662.	4.0	18
121	Photoacoustic imaging and surface-enhanced Raman spectroscopy using dual modal contrast agents. Proceedings of SPIE, 2016, , .	0.8	0
122	Bull serum albumin coated Au@Agnanorods as SERS probes for ultrasensitive osteosarcoma cell detection. Talanta, 2016, 150, 503-509.	2.9	21
123	Near-infrared light-triggered thermochemotherapy of cancer using a polymerâ€“gold nanorod conjugate. Nanotechnology, 2016, 27, 175102.	1.3	20
124	Localized surface plasmon resonance of gold nanorods and assemblies in the view of biomedical analysis. TrAC - Trends in Analytical Chemistry, 2016, 80, 429-443.	5.8	55
125	Spinâ€“Orbit Coupling Effects in Au_{<i>m</i>}Pt_{<i>n</i>} Clusters (<i>m</i>+) Tj ETQq1 1,0,784314,fgBT /Ove	1.1	11
126	Imaging-guided photoacoustic drug release and synergistic chemo-photoacoustic therapy with paclitaxel-containing nanoparticles. Journal of Controlled Release, 2016, 226, 77-87.	4.8	45
127	Gold Nanostructures for Cancer Imaging and Therapy. Springer Series in Biomaterials Science and Engineering, 2016, , 53-101.	0.7	4

#	ARTICLE	IF	CITATIONS
128	Medical Applications of SERS. Biological and Medical Physics Series, 2016, , 149-211.	0.3	7
129	Gold Nanorods for Biomedical Imaging and Therapy in Cancer. Springer Series in Biomaterials Science and Engineering, 2016, , 103-136.	0.7	1
130	Roadmap to Clinical Use of Gold Nanoparticles for Radiation Sensitization. International Journal of Radiation Oncology Biology Physics, 2016, 94, 189-205.	0.4	182
131	Raman technologies in cancer diagnostics. Analyst, The, 2016, 141, 476-503.	1.7	151
132	Near-infrared light-responsive nanomaterials for cancer theranostics. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2016, 8, 23-45.	3.3	115
133	What is new in nanoparticle-based photoacoustic imaging?. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2017, 9, e1404.	3.3	92
134	Multiple gold nanorods@hierarchically porous silica nanospheres for efficient multi-drug delivery and photothermal therapy. Journal of Materials Chemistry B, 2017, 5, 1642-1649.	2.9	14
135	TiL ₄ -Coordinated Black Phosphorus Quantum Dots as an Efficient Contrast Agent for In Vivo Photoacoustic Imaging of Cancer. Small, 2017, 13, 1602896.	5.2	251
136	Near-infrared absorbing amphiphilic semiconducting polymers for photoacoustic imaging. Journal of Materials Chemistry B, 2017, 5, 4406-4409.	2.9	40
137	Ratiometric Photoacoustic Molecular Imaging for Methylmercury Detection in Living Subjects. Advanced Materials, 2017, 29, 1606129.	11.1	72
138	Surface engineering of semiconducting polymer nanoparticles for amplified photoacoustic imaging. Biomaterials, 2017, 127, 97-106.	5.7	119
139	Raman spectroscopy using plasmonic and carbon-based nanoparticles for cancer detection, diagnosis, and treatment guidance.Part 1: Diagnosis. Drug Metabolism Reviews, 2017, 49, 212-252.	1.5	17
140	The development and characterization of a novel yet simple 3D printed tool to facilitate phantom imaging of photoacoustic contrast agents. Photoacoustics, 2017, 5, 17-24.	4.4	24
141	Surface plasmon resonance in gold nanoparticles: a review. Journal of Physics Condensed Matter, 2017, 29, 203002.	0.7	1,184
142	Machine learning-assisted hyperspectral analysis of plasmonic contrast agent microbiodistribution with single-particle sensitivity and sub-cellular resolution. , 2017, , .		0
143	Surface-enhanced Raman scattering analysis of urine from deceased donors as a prognostic tool for kidney transplant outcome. Journal of Biophotonics, 2017, 10, 1743-1755.	1.1	12
144	A magnetic polypyrrole/iron oxide core/gold shell nanocomposite for multimodal imaging and photothermal cancer therapy. Talanta, 2017, 171, 32-38.	2.9	47
145	Design and Applications of Nanoparticles in Biomedical Imaging. , 2017, , .		15

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146	An analytical study of photoacoustic and thermoacoustic generation efficiency towards contrast agent and film design optimization. <i>Photoacoustics</i> , 2017, 7, 1-11.	4.4	35
147	Raman-Encoded Molecular Imaging with Topically Applied SERS Nanoparticles for Intraoperative Guidance of Lumpectomy. <i>Cancer Research</i> , 2017, 77, 4506-4516.	0.4	75
148	Dynamic contrast-enhanced photoacoustic imaging using photothermal stimuli-responsive composite nanomodulators. <i>Nature Communications</i> , 2017, 8, 15782.	5.8	83
149	SERS-Activated Platforms for Immunoassay: Probes, Encoding Methods, and Applications. <i>Chemical Reviews</i> , 2017, 117, 7910-7963.	23.0	467
150	Stacked Gold Nanodisks for Bimodal Photoacoustic and Optical Coherence Imaging. <i>ACS Nano</i> , 2017, 11, 6225-6232.	7.3	36
151	Light-driven liquid metal nanotransformers for biomedical theranostics. <i>Nature Communications</i> , 2017, 8, 15432.	5.8	327
152	Multifunctional hetero-nanostructures of hydroxyl-rich polycation wrapped cellulose-gold hybrids for combined cancer therapy. <i>Journal of Controlled Release</i> , 2017, 255, 154-163.	4.8	45
153	From Detection to Resection: Photoacoustic Tomography and Surgery Guidance with Indocyanine Green Loaded Gold Nanorod@liposome Core-Shell Nanoparticles in Liver Cancer. <i>Bioconjugate Chemistry</i> , 2017, 28, 1221-1228.	1.8	52
154	Molecular imaging probes for multi-spectral optoacoustic tomography. <i>Chemical Communications</i> , 2017, 53, 4653-4672.	2.2	99
155	Gold Suprashells: Enhanced Photothermal Nanoheaters with Multiple Localized Surface Plasmon Resonances for Broadband Surface-Enhanced Raman Scattering. <i>Journal of Physical Chemistry C</i> , 2017, 121, 7404-7411.	1.5	11
156	Raman spectroscopy using plasmonic and carbon-based nanoparticles for cancer detection, diagnosis, and treatment guidance. Part 2: Treatment. <i>Drug Metabolism Reviews</i> , 2017, 49, 253-283.	1.5	16
157	Degradable Semiconducting Oligomer Amphiphile for Ratiometric Photoacoustic Imaging of Hypochlorite. <i>ACS Nano</i> , 2017, 11, 4174-4182.	7.3	202
158	Nanoparticles for Photoacoustic Imaging of Cancer. , 2017, , 315-335.		1
159	Platinum-Coated Gold Nanorods: Efficient Reactive Oxygen Scavengers That Prevent Oxidative Damage toward Healthy, Untreated Cells during Plasmonic Photothermal Therapy. <i>ACS Nano</i> , 2017, 11, 579-586.	7.3	205
160	A Theragnosis Probe Based on BSA/HSA-Conjugated Biocompatible Fluorescent Silicon Nanomaterials for Simultaneous in Vitro Cholesterol Effluxing and Cellular Imaging of Macrophage Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 1425-1435.	3.2	11
161	Tissue factor-specific ultra-bright SERRS nanostars for Raman detection of pulmonary micrometastases. <i>Nanoscale</i> , 2017, 9, 1110-1119.	2.8	41
162	NIR-Responsive Polycationic Gatekeeper-Cloaked Hetero-Nanoparticles for Multimodal Imaging-Guided Triple-Combination Therapy of Cancer. <i>Small</i> , 2017, 13, 1603133.	5.2	102
163	Nanoparticle Regrowth Enhances Photoacoustic Signals of Semiconducting Macromolecular Probe for In Vivo Imaging. <i>Advanced Materials</i> , 2017, 29, 1703693.	11.1	145

#	ARTICLE	IF	CITATIONS
164	Versatile design and synthesis of nano-barcodes. <i>Chemical Society Reviews</i> , 2017, 46, 7054-7093.	18.7	193
165	Engineering and physical sciences in oncology: challenges and opportunities. <i>Nature Reviews Cancer</i> , 2017, 17, 659-675.	12.8	204
166	Cytotoxicity and cellular uptake of different sized gold nanoparticles in ovarian cancer cells. <i>Nanotechnology</i> , 2017, 28, 475101.	1.3	44
167	Synthesis of optically tunable bumpy silver nanoshells by changing the silica core size and their SERS activities. <i>RSC Advances</i> , 2017, 7, 40255-40261.	1.7	15
168	SERS Quantification and Characterization of Proteins and Other Biomolecules. <i>Langmuir</i> , 2017, 33, 9711-9730.	1.6	121
169	Functionalized gold nanorods for nanomedicine: Past, present and future. <i>Coordination Chemistry Reviews</i> , 2017, 352, 15-66.	9.5	65
170	Photoacoustic molecular imaging with functional nanoparticles. <i>Journal of Innovative Optical Health Sciences</i> , 2017, 10, 1730004.	0.5	6
171	A dual modal silver bumpy nanoprobe for photoacoustic imaging and SERS multiplexed identification of in vivo lymph nodes. <i>Nanoscale</i> , 2017, 9, 12556-12564.	2.8	28
172	Development of Real-Time 3-D Photoacoustic Imaging System Employing Spherically Curved Array Transducer. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2017, 64, 1223-1233.	1.7	16
173	Insights into the unique functionality of inorganic micro/nanoparticles for versatile ultrasound theranostics. <i>Biomaterials</i> , 2017, 142, 13-30.	5.7	120
174	Contrast-enhanced dual mode imaging: photoacoustic imaging plus more. <i>Biomedical Engineering Letters</i> , 2017, 7, 121-133.	2.1	24
175	Markerfreie molekulare Bildgebung biologischer Zellen und Gewebe durch lineare und nichtlineare Raman-spektroskopische Ansätze. <i>Angewandte Chemie</i> , 2017, 129, 4458-4500.	1.6	8
176	Label-Free Molecular Imaging of Biological Cells and Tissues by Linear and Nonlinear Raman Spectroscopic Approaches. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4392-4430.	7.2	177
177	Rationally encapsulated gold nanorods improving both linear and nonlinear photoacoustic imaging contrast in vivo. <i>Nanoscale</i> , 2017, 9, 79-86.	2.8	41
178	Biocompatible astaxanthin as novel contrast agent for biomedical imaging. <i>Journal of Biophotonics</i> , 2017, 10, 1053-1061.	1.1	16
179	Gadolinium oxysulfide-coated gold nanorods with improved stability and dual-modal magnetic resonance/photoacoustic imaging contrast enhancement for cancer theranostics. <i>Nanoscale</i> , 2017, 9, 56-61.	2.8	43
180	In situ synthesis of graphene oxide/gold nanorods theranostic hybrids for efficient tumor computed tomography imaging and photothermal therapy. <i>Nano Research</i> , 2017, 10, 37-48.	5.8	64
181	Gold nanoparticles enlighten the future of cancer theranostics. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 6131-6152.	3.3	202

#	ARTICLE	IF	CITATIONS
182	Photoacoustic Drug Delivery. <i>Sensors</i> , 2017, 17, 1400.	2.1	33
184	Current applications and future prospects of nanomaterials in tumor therapy. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 1815-1825.	3.3	71
185	Cancer characterization and diagnosis with SERS-encoded particles. <i>Cancer Nanotechnology</i> , 2017, 8, .	1.9	55
186	Multifunctional nanomedicine with silica: Role of silica in nanoparticles for theranostic, imaging, and drug monitoring. <i>Journal of Colloid and Interface Science</i> , 2018, 521, 261-279.	5.0	140
187	Manipulation of the Geometry and Modulation of the Optical Response of Surfactant-Free Gold Nanostars: A Systematic Bottom-Up Synthesis. <i>ACS Omega</i> , 2018, 3, 2202-2210.	1.6	76
188	Raman photostability of off-resonant gap-enhanced Raman tags. <i>RSC Advances</i> , 2018, 8, 14434-14444.	1.7	29
189	Emergence of two near-infrared windows for in vivo and intraoperative SERS. <i>Current Opinion in Chemical Biology</i> , 2018, 45, 95-103.	2.8	50
191	Visualization of murine lymph vessels using photoacoustic imaging with contrast agents. <i>Photoacoustics</i> , 2018, 9, 39-48.	4.4	21
192	Semiconducting polymer nanoparticles for amplified photoacoustic imaging. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2018, 10, e1510.	3.3	8
193	Synthesis of PEGylated Semiconducting Polymer Amphiphiles for Molecular Photoacoustic Imaging and Guided Therapy. <i>Chemistry - A European Journal</i> , 2018, 24, 12121-12130.	1.7	17
194	Towards an Integrated QR Code Biosensor: Light-Driven Sample Acquisition and Bacterial Cellulose Paper Substrate. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2018, 12, 452-460.	2.7	2
195	Screening for ovarian cancer: imaging challenges and opportunities for improvement. <i>Ultrasound in Obstetrics and Gynecology</i> , 2018, 51, 293-303.	0.9	69
196	Facile Approach to Synthesize Gold Nanorod@Polyacrylic Acid/Calcium Phosphate Yolk@Shell Nanoparticles for Dual-Mode Imaging and pH/NIR-Responsive Drug Delivery. <i>Nano-Micro Letters</i> , 2018, 10, 7.	14.4	45
197	Multivariate Curve Resolution@Alternating Least Squares (MCR-ALS) with Raman Imaging Applied to Lunar Meteorites. <i>Applied Spectroscopy</i> , 2018, 72, 404-419.	1.2	20
198	Ultrasensitive NIR@SERS Probes with Multiplexed Ratiometric Quantification for In Vivo Antibody Leads Validation. <i>Advanced Healthcare Materials</i> , 2018, 7, 1700870.	3.9	17
199	Photoacoustic Imaging: Contrast Agents and Their Biomedical Applications. <i>Advanced Materials</i> , 2019, 31, e1805875.	11.1	468
200	Polarimetric SAR Image Classification by Multitask Sparse Representation Learning. , 2018, , .		1
201	Seed-Mediated Synthesis of Tunable-Aspect-Ratio Gold Nanorods for Near-Infrared Photoacoustic Imaging. <i>Nanoscale Research Letters</i> , 2018, 13, 313.	3.1	27

#	ARTICLE	IF	CITATIONS
202	Bandgap Engineered Polypyrrole-Polydopamine Hybrid with Intrinsic Raman and Photoacoustic Imaging Contrasts. <i>Nano Letters</i> , 2018, 18, 7485-7493.	4.5	44
203	Au-Fe ₃ O ₄ heterostructures for catalytic, analytical, and biomedical applications. <i>Chinese Chemical Letters</i> , 2018, 29, 1725-1730.	4.8	21
204	A biodegradable fluorescent nanohybrid for photo-driven tumor diagnosis and tumor growth inhibition. <i>Nanoscale</i> , 2018, 10, 19082-19091.	2.8	30
205	Recent Advances in Bioimaging for Cancer Research. , 0, , .		5
206	Applications of Gold Nanoparticles in Cancer Imaging and Treatment. , 0, , .		9
207	<i>In Vivo</i> Examination of Folic Acid-Conjugated Gold-Silica Nanohybrids as Contrast Agents for Localized Tumor Diagnosis and Biodistribution. <i>Bioconjugate Chemistry</i> , 2018, 29, 4012-4019.	1.8	18
208	Photostable, hydrophilic, and near infrared quaterrylene-based dyes for photoacoustic imaging. <i>Materials Science and Engineering C</i> , 2018, 93, 1012-1019.	3.8	5
209	Novel SERS labels: Rational design, functional integration and biomedical applications. <i>Coordination Chemistry Reviews</i> , 2018, 371, 11-37.	9.5	112
210	Recent advances in gold nanostructures based biosensing and bioimaging. <i>Coordination Chemistry Reviews</i> , 2018, 370, 1-21.	9.5	67
211	Raman spectroscopic techniques to detect ovarian cancer biomarkers in blood plasma. <i>Talanta</i> , 2018, 189, 281-288.	2.9	50
212	Clinical Diagnostic Imaging. , 2018, , 107-130.		0
213	Enhancing hydrophilicity of photoacoustic probes for effective ratiometric imaging of hydrogen peroxide. <i>Journal of Materials Chemistry B</i> , 2018, 6, 4531-4538.	2.9	27
214	Near Infrared Boron Dipyrromethene Nanoparticles for Optotheranostics. <i>Small Methods</i> , 2018, 2, 1700370.	4.6	45
215	Organic Semiconducting Agents for Deep-Tissue Molecular Imaging: Second Near-Infrared Fluorescence, Self-Luminescence, and Photoacoustics. <i>Advanced Materials</i> , 2018, 30, e1801778.	11.1	434
216	Exploring the margins of SERS in practical domain: An emerging diagnostic modality for modern biomedical applications. <i>Biomaterials</i> , 2018, 181, 140-181.	5.7	86
217	Label-free distinction between p53 ^{+/+} and p53 ^{-/-} colon cancer cells using a graphene based SERS platform. <i>Biosensors and Bioelectronics</i> , 2018, 118, 108-114.	5.3	25
218	A Gold/Silver Hybrid Nanoparticle for Treatment and Photoacoustic Imaging of Bacterial Infection. <i>ACS Nano</i> , 2018, 12, 5615-5625.	7.3	221
219	A flexible SERS-active film for studying the effect of non-metallic nanostructures on Raman enhancement. <i>Nanoscale</i> , 2018, 10, 16895-16901.	2.8	24

#	ARTICLE	IF	CITATIONS
220	Se Atom-Induced Synthesis of Concave Spherical Fe ₃ O ₄ @Cu ₂ O Nanocrystals for Highly Efficient MRI-SERS Imaging-Guided NIR Photothermal Therapy. Particle and Particle Systems Characterization, 2018, 35, 1800197.	1.2	10
221	Plasmonic Band Tunable (Au Nanocrystal)/SnO ₂ Core/Shell Hybrids for Photothermal Therapy. Particle and Particle Systems Characterization, 2018, 35, 1800238.	1.2	5
222	Characterization of Reversibly Switchable Fluorescent Proteins in Optoacoustic Imaging. Analytical Chemistry, 2018, 90, 10527-10535.	3.2	24
223	Optical assays based on colloidal inorganic nanoparticles. Analyst, The, 2018, 143, 3249-3283.	1.7	58
224	Gold nanoparticles for cancer diagnostics, spectroscopic imaging, drug delivery, and plasmonic photothermal therapy. , 2018, , 41-91.		10
225	<p>Capping gold nanoparticles with albumin to improve their biomedical properties</p>. International Journal of Nanomedicine, 2019, Volume 14, 6387-6406.	3.3	119
226	Real-Time Optoacoustic Tracking of Single Moving Micro-objects in Deep Phantom and Ex Vivo Tissues. Nano Letters, 2019, 19, 6612-6620.	4.5	64
227	Antimonene Nanoflakes: Extraordinary Photoacoustic Performance for High-Contrast Imaging of Small Volume Tumors. Advanced Healthcare Materials, 2019, 8, e1900378.	3.9	20
228	Seeing Better and Going Deeper in Cancer Nanotheranostics. International Journal of Molecular Sciences, 2019, 20, 3490.	1.8	12
229	Advanced Nanotechnology Leading the Way to Multimodal Imaging-Guided Precision Surgical Therapy. Advanced Materials, 2019, 31, e1904329.	11.1	135
230	Theranostic Nanostructures for Ovarian Cancer. Critical Reviews in Therapeutic Drug Carrier Systems, 2019, 36, 305-371.	1.2	5
231	Boosting Fluorescence-Photoacoustic-Raman Properties in One Fluorophore for Precise Cancer Surgery. Chem, 2019, 5, 2657-2677.	5.8	100
232	Photoacoustic clinical imaging. Photoacoustics, 2019, 14, 77-98.	4.4	368
233	Copper Sulfide Nanodisks and Nanoprisms for Photoacoustic Ovarian Tumor Imaging. Particle and Particle Systems Characterization, 2019, 36, 1900171.	1.2	12
234	Active targeting drug-gold nanorod hybrid nanoparticles for amplifying photoacoustic signal and enhancing anticancer efficacy. RSC Advances, 2019, 9, 13494-13502.	1.7	7
235	Polydopamine-coated Au nanorods for targeted fluorescent cell imaging and photothermal therapy. Beilstein Journal of Nanotechnology, 2019, 10, 794-803.	1.5	22
236	Current concepts in nanostructured contrast media development for <i>in vivo</i> photoacoustic imaging. Biomaterials Science, 2019, 7, 1746-1775.	2.6	40
237	Strategies for Image-Guided Therapy, Surgery, and Drug Delivery Using Photoacoustic Imaging. Theranostics, 2019, 9, 1550-1571.	4.6	123

#	ARTICLE	IF	CITATIONS
238	Rapid and fingerprinted monitoring of pesticide methyl parathion on the surface of fruits/leaves as well as in surface water enabled by gold nanorods based casting-and-sensing SERS platform. <i>Talanta</i> , 2019, 200, 84-90.	2.9	36
239	Synthetic data framework to estimate the minimum detectable concentration of contrast agents for multispectral optoacoustic imaging of small animals. <i>Journal of Biophotonics</i> , 2019, 12, e201900021.	1.1	0
240	One-Dimensional Metal Nanostructures: From Colloidal Syntheses to Applications. <i>Chemical Reviews</i> , 2019, 119, 8972-9073.	23.0	240
241	LyP-1 peptide-functionalized gold nanoprisms for SERRS imaging and tumor growth suppressing by PTT induced-hyperthermia. <i>Chinese Chemical Letters</i> , 2019, 30, 1335-1340.	4.8	30
242	Gold Nanomaterials for Imaging-Guided Near-Infrared in vivo Cancer Therapy. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 398.	2.0	27
243	Multimodal Cancer Theranosis Using Hyaluronate- Conjugated Molybdenum Disulfide. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801036.	3.9	26
244	Self-Assembly of Polymer-Coated Plasmonic Nanocrystals: From Synthetic Approaches to Practical Applications. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1800613.	2.0	11
245	Aptamer-Conjugated Au Nanocage/ SiO_2 Core-Shell Bifunctional Nanoprobes with High Stability and Biocompatibility for Cellular SERS Imaging and Near-Infrared Photothermal Therapy. <i>ACS Sensors</i> , 2019, 4, 301-308.	4.0	73
246	Light Concentration by Metal-Dielectric Micro-Resonators for SERS Sensing. <i>Materials</i> , 2019, 12, 103.	1.3	28
247	Photothermal therapy and photoacoustic imaging <i>via</i> nanotheranostics in fighting cancer. <i>Chemical Society Reviews</i> , 2019, 48, 2053-2108.	18.7	2,033
248	Advances in surface-enhanced Raman spectroscopy for cancer diagnosis and staging. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 7-36.	1.2	36
249	Metal-dielectric optical resonance in metasurfaces and SERS effect. <i>Optical and Quantum Electronics</i> , 2020, 52, 1.	1.5	5
250	Self-Assembled Nanomaterials for Enhanced Phototherapy of Cancer. <i>ACS Applied Bio Materials</i> , 2020, 3, 86-106.	2.3	52
251	Multimodal Imaging of Pancreatic Ductal Adenocarcinoma Using Multifunctional Nanoparticles as Contrast Agents. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 53665-53681.	4.0	19
252	Comparative electron and photon excitation of localized surface plasmon resonance in lithographic gold arrays for enhanced Raman scattering. <i>Nanoscale</i> , 2020, 12, 23768-23779.	2.8	9
253	Photoacoustic imaging with fiber optic technology: A review. <i>Photoacoustics</i> , 2020, 20, 100211.	4.4	57
254	Engineering Plasmonic Nanoparticles for Enhanced Photoacoustic Imaging. <i>ACS Nano</i> , 2020, 14, 9408-9422.	7.3	144
255	Exploiting proteases for cancer theranostic through molecular imaging and drug delivery. <i>International Journal of Pharmaceutics</i> , 2020, 587, 119712.	2.6	15

#	ARTICLE	IF	CITATIONS
256	Emerging Low-Dimensional Nanoagents for Bio-Microimaging. <i>Advanced Functional Materials</i> , 2020, 30, 2003147.	7.8	13
257	Modulation of Efficient Diiodo-BODIPY <i>in vitro</i> Phototoxicity to Cancer Cells by Carbon Nano-Onions. <i>Frontiers in Chemistry</i> , 2020, 8, 573211.	1.8	13
258	Assessment of the Theranostic Potential of Gold Nanostars: A Multimodal Imaging and Photothermal Treatment Study. <i>Nanomaterials</i> , 2020, 10, 2112.	1.9	10
259	Iodide-doped precious metal nanoparticles: measuring oxidative stress <i>in vivo</i> via photoacoustic imaging. <i>Nanoscale</i> , 2020, 12, 10511-10520.	2.8	53
260	Nanoparticles for imaging application. <i>Frontiers of Nanoscience</i> , 2020, , 67-88.	0.3	2
261	Nanoengineered Light-Activatable Polybubbles for On-Demand Therapeutic Delivery. <i>Advanced Functional Materials</i> , 2020, 30, 2003579.	7.8	8
262	Multifunctional gap-enhanced Raman tags for preoperative and intraoperative cancer imaging. <i>Acta Biomaterialia</i> , 2020, 104, 210-220.	4.1	27
263	Bioorthogonal SERS Nanotags as a Precision Theranostic Platform for <i>in Vivo</i> SERS Imaging and Cancer Photothermal Therapy. <i>Bioconjugate Chemistry</i> , 2020, 31, 182-193.	1.8	50
264	Optimizing the Geometry of Photoacoustically Active Gold Nanoparticles for Biomedical Imaging. <i>ACS Photonics</i> , 2020, 7, 646-652.	3.2	49
265	Nanoconfinement-mediated cancer theranostics. <i>Archives of Pharmacal Research</i> , 2020, 43, 110-117.	2.7	8
266	PEGylated gold nanorods with a broad absorption band in the first near-infrared window for <i>in vivo</i> multifunctional photoacoustic imaging. <i>RSC Advances</i> , 2020, 10, 4561-4567.	1.7	7
267	Gold nanorods: new generation drug delivery platform. , 2020, , 59-84.		3
268	Application of gold nanoparticles in photoacoustic imaging. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 729, 012086.	0.3	5
269	Recent advances in applications of nanoparticles in SERS <i>in vivo</i> imaging. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2021, 13, e1672.	3.3	43
270	Gold nanoparticles to enhance ophthalmic imaging. <i>Biomaterials Science</i> , 2021, 9, 367-390.	2.6	34
271	Intraoperative Assessment and Photothermal Ablation of the Tumor Margins Using Gold Nanoparticles. <i>Advanced Science</i> , 2021, 8, 2002788.	5.6	34
272	Role of Metals, Metal Oxides, and Metal Sulfides in the Diagnosis and Treatment of Cancer. <i>Environmental Chemistry for A Sustainable World</i> , 2021, , 165-207.	0.3	1
273	Nanotechnology advances in ovarian cancer. , 2021, , 105-128.		1

#	ARTICLE	IF	CITATIONS
274	Effects of Doxorubicin Delivery by Nitrogen-Doped Graphene Quantum Dots on Cancer Cell Growth: Experimental Study and Mathematical Modeling. <i>Nanomaterials</i> , 2021, 11, 140.	1.9	25
275	Plasmonic Gold Nanoparticles (AuNPs): Properties, Synthesis and their Advanced Energy, Environmental and Biomedical Applications. <i>Chemistry - an Asian Journal</i> , 2021, 16, 720-742.	1.7	106
276	Recent advances on application of gold nanorods in detection field. <i>Materials Research Express</i> , 2021, 8, 032001.	0.8	3
277	Optically activatable photosynthetic bacteria-based highly tumor specific immunotheranostics. <i>Nano Today</i> , 2021, 37, 101100.	6.2	16
278	Cross-checking the effect of roughness on the stability of photoacoustic conversion from gold nanorods. , 2021, , .		0
279	Low-dose X-ray enhanced tumor accumulation of theranostic nanoparticles for high-performance bimodal imaging-guided photothermal therapy. <i>Journal of Nanobiotechnology</i> , 2021, 19, 155.	4.2	10
280	Subcellular imaging and diagnosis of cancer using engineered nanoparticles. <i>Current Pharmaceutical Design</i> , 2021, 27, .	0.9	4
281	Recent advances in optical imaging of biomarkers in vivo. <i>Nano Today</i> , 2021, 38, 101156.	6.2	32
282	Acoustics at the nanoscale (nanoacoustics): A comprehensive literature review. Part II: Nanoacoustics for biomedical imaging and therapy. <i>Sensors and Actuators A: Physical</i> , 2021, 332, 112925.	2.0	7
283	NWUâ€™SIT: An integrated graphical user interface for biomedical Raman spectral imaging with both univariate and multivariate modules. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 1428-1439.	1.2	8
284	Determine the position of nanoparticles in cells by using surface-enhanced Raman three-dimensional imaging. <i>Nano Research</i> , 2021, 14, 3402-3406.	5.8	4
285	Coordination chemistry of elemental phosphorus. <i>Coordination Chemistry Reviews</i> , 2021, 441, 213927.	9.5	65
286	Gold Nanorod Enhanced Photoacoustic Microscopy and Optical Coherence Tomography of Choroidal Neovascularization. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 40214-40228.	4.0	12
287	High-throughput multiplex analysis method based on Fluorescenceâ€™SERS quantum Dot-Embedded silver bumpy nanoprobe. <i>Applied Surface Science</i> , 2021, 558, 149787.	3.1	5
288	Investigation of Bioimpacts of Metallic and Metallic Oxide Nanostructured Materials: Size, Shape, Chemical Composition, and Surface Functionality: A Review. <i>Particle and Particle Systems Characterization</i> , 2021, 38, 2100112.	1.2	8
289	Modulation of Gold Nanorod Growth via the Proteolysis of Dithiol Peptides for Enzymatic Biomarker Detection. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 45236-45243.	4.0	15
290	An approach for optimizing gold nanoparticles for possible medical applications, using correlative electron energy loss and Raman spectroscopies on electron beam lithographically fabricated arrays. <i>Journal of Materials Research</i> , 2021, 36, 3383.	1.2	0
291	Screening ovarian cancers with Raman spectroscopy of blood plasma coupled with machine learning data processing. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 265, 120355.	2.0	20

#	ARTICLE	IF	CITATIONS
292	Surface-enhanced Raman spectroscopy for cancer characterization. , 2022, , 373-393.		0
293	Biosensor fabrication with nanomaterials. , 2021, , 31-55.		1
294	Photostability of Contrast Agents for Photoacoustics: The Case of Gold Nanorods. <i>Nanomaterials</i> , 2021, 11, 116.	1.9	19
296	Silver-, gold-, and iron-based metallic nanoparticles. , 2018, , 161-242.		8
297	Pulsed laser damage of gold nanorods in turbid media and its impact on multi-spectral photoacoustic imaging. <i>Biomedical Optics Express</i> , 2019, 10, 1919.	1.5	10
298	Nanotechnology for Cancer Diagnostics and Therapy “ An Update on Novel Molecular Players. <i>Current Cancer Therapy Reviews</i> , 2014, 9, 164-172.	0.2	5
299	Research perspectives: gold nanoparticles in cancer theranostics. <i>Quantitative Imaging in Medicine and Surgery</i> , 2013, 3, 284-91.	1.1	41
300	Photoacoustic Imaging for Cancer Diagnosis. <i>Journal of Analytical Oncology</i> , 0, , .	0.1	1
301	A hyperspectral method to assay the microphysiological fates of nanomaterials in histological samples. <i>ELife</i> , 2016, 5, .	2.8	26
302	Photoacoustic Microscopy for In Vitro Cells Imaging. <i>Nippon Laser Igakkaishi</i> , 2013, 33, 392-398.	0.0	0
303	Metallic and Upconversion Nanoparticles as Photoacoustic Contrast Agents for Biomedical Imaging. , 2015, , 1-24.		0
305	Photoacoustic imaging of gastric cancer in vitro based on water-soluble nanoscale gold rods. , 2018, , .		0
306	RGD engineered dendrimer nanotherapeutic as an emerging targeted approach in cancer therapy. <i>Journal of Controlled Release</i> , 2021, 340, 221-242.	4.8	62
307	Combination of Spontaneous and Coherent Raman Scattering Approaches with Other Spectroscopic Modalities for Molecular Multi-contrast Cancer Diagnosis. , 2020, , 325-358.		0
308	Development of Gold Nanorods Conjugated with Radiolabeled Anti-human Epidermal Growth Factor Receptor 2 (HER2) Monoclonal Antibody as Single-Photon Emission Computed Tomography/Photoacoustic Dual-Imaging Probes Targeting HER2-Positive Tumors. <i>Biological and Pharmaceutical Bulletin</i> , 2020, 43, 1859-1866.	0.6	1
309	Advances in Surface Enhanced Raman Spectroscopy for <i>in Vivo</i> Imaging in Oncology. <i>Nanotheranostics</i> , 2022, 6, 31-49.	2.7	15
310	Contrast-enhanced photoacoustic imaging with gold nanoparticles. , 2021, , .		0
311	Nanotechnology: A Curative Approach to Combat HIV-AIDS. <i>International Journal of Current Research and Review (discontinued)</i> , 2020, 12, 149-161.	0.1	3

#	ARTICLE	IF	CITATIONS
313	PA Imaging: A promising tool for targeted therapeutic implications in Cancer. , 2022, , 131-160.		1
314	Noninvasive and Highly Multiplexed Five-Color Tumor Imaging of Multicore Near-Infrared Resonant Surface-Enhanced Raman Nanoparticles <i>In Vivo</i> . ACS Nano, 2021, 15, 19956-19969.	7.3	19
315	Chapter 3. Imaging Applications of Inorganic Nanomaterials. Inorganic Materials Series, 2021, , 127-193.	0.5	0
316	To PEGylate or not to PEGylate: Immunological properties of nanomedicine's most popular component, polyethylene glycol and its alternatives. Advanced Drug Delivery Reviews, 2022, 180, 114079.	6.6	163
317	Nanomaterials as Ultrasound Theragnostic Tools for Heart Disease Treatment/Diagnosis. International Journal of Molecular Sciences, 2022, 23, 1683.	1.8	8
318	Engineered Gold Nanoparticles for Photothermal Applications. RSC Nanoscience and Nanotechnology, 2022, , 33-80.	0.2	2
320	Photoacoustic Enhancement of Ferricyanide-Treated Silver Chalcogenide-Coated Gold Nanorods. Journal of Physical Chemistry C, 2022, 126, 7605-7614.	1.5	4
321	Plasmonic anisotropic gold nanorods: Preparation and biomedical applications. Nano Research, 2022, 15, 6372-6398.	5.8	15
322	Designing the Surface Chemistry of Inorganic Nanocrystals for Cancer Imaging and Therapy. Cancers, 2022, 14, 2456.	1.7	4
323	Current Update on Nanotechnology-Based Approaches in Ovarian Cancer Therapy. Reproductive Sciences, 2023, 30, 335-349.	1.1	4
324	An NIR-Photothermally Triggered "Oxygen Bomb" for Hypoxic Tumor Programmed Cascade Therapy. Advanced Materials, 2022, 34, .	11.1	48
325	A Mouse Model of Endometriosis with Nanoparticle Labeling for In Vivo Photoacoustic Imaging. Reproductive Sciences, 2022, 29, 2947-2959.	1.1	1
326	Expanding the Multiplexing Capabilities of Raman Imaging to Reveal Highly Specific Molecular Expression and Enable Spatial Profiling. ACS Nano, 2022, 16, 10341-10353.	7.3	27
327	Boosting the Brightness of Thiolated Surface-Enhanced Raman Scattering Nanoprobes by Maximal Utilization of the Three-Dimensional Volume of Electromagnetic Fields. Journal of Physical Chemistry Letters, 2022, 13, 6496-6502.	2.1	6
328	Development of SERS tags for human diseases screening and detection. Coordination Chemistry Reviews, 2022, 470, 214711.	9.5	22
329	Contrast Agents for Photoacoustic Imaging: A Review Focusing on the Wavelength Range. Biosensors, 2022, 12, 594.	2.3	21
330	Engineering gold nanoparticles for molecular diagnostics and biosensing. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2023, 15, .	3.3	15
331	The sound of drug delivery: Optoacoustic imaging in pharmacology. Advanced Drug Delivery Reviews, 2022, 189, 114506.	6.6	18

#	ARTICLE	IF	CITATIONS
332	Multifunctional plasmonic-magnetic nanoparticles for bioimaging and hyperthermia. <i>Advanced Drug Delivery Reviews</i> , 2022, 189, 114484.	6.6	34
333	Multimodal imaging of nano-assembled microspheres loaded with doxorubicin and Cisplatin for liver tumor therapy. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 10, .	2.0	2
334	Dendronized Gelatin-Mediated Synthesis of Gold Nanoparticles. <i>Molecules</i> , 2022, 27, 6096.	1.7	1
335	Laser-induced photoexcited audible sound effect based on reticular 2-Bromo-2-methylpropionic acid modified Fe ₃ O ₄ nanoparticle aggregates. <i>Nanoscale</i> , 0, , .	2.8	1
336	Raman nanoprobe for in vivo medical applications. , 2023, , 391-410.		0
337	Cell-Based Metabolomics Approach for Anticipating and Investigating Cytotoxicity of Gold Nanorods. <i>Foods</i> , 2022, 11, 3569.	1.9	1
338	Progress of photoacoustic imaging combined with targeted photoacoustic contrast agents in tumor molecular imaging. <i>Frontiers in Chemistry</i> , 0, 10, .	1.8	4
339	A Photoacoustic Contrast Nanoagent with a Distinct Spectral Signature for Ovarian Cancer Management. <i>Advanced Healthcare Materials</i> , 2023, 12, .	3.9	3
340	Recent Advances in Contrast-Enhanced Photoacoustic Imaging: Overcoming the Physical and Practical Challenges. <i>Chemical Reviews</i> , 2023, 123, 7379-7419.	23.0	39
341	Design and Synthesis of SERS Materials for In Vivo Molecular Imaging and Biosensing. <i>Advanced Science</i> , 2023, 10, .	5.6	21
342	Emergence of Raman Spectroscopy as a Probing Tool for Theranostics. <i>Nanotheranostics</i> , 2023, 7, 216-235.	2.7	3
343	Nanostrategies for Therapeutic and Diagnostic Targeting of Gastrin-Releasing Peptide Receptor. <i>International Journal of Molecular Sciences</i> , 2023, 24, 3455.	1.8	1
344	Metal Complexes and Nanoparticles for Photoacoustic Imaging. <i>ChemBioChem</i> , 2023, 24, .	1.3	7
345	Laser spectroscopy imaging technique coupled with nanomaterials for cancer diagnosis: A review. <i>Journal of Innovative Optical Health Sciences</i> , 2024, 17, .	0.5	2
346	New trends in diagnosing and treating ovarian cancer using nanotechnology. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 11, .	2.0	4
347	Nanomaterial-based contrast agents. <i>Nature Reviews Methods Primers</i> , 2023, 3, .	11.8	9
350	Material design, development, and trend for surface-enhanced Raman scattering substrates. <i>Nanoscale</i> , 2023, 15, 10860-10881.	2.8	10
355	Theranostic gold nanoparticle-assisted tumor radiosensitization and imaging. , 2024, , 167-195.		0

#	ARTICLE	IF	CITATIONS
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