Yasuro Niidome

List of Publications by Year
in descending order

121 papers	5,641 citations	81900 39 h-index	76900 74 g-index
126 all docs	126 docs citations	126 times ranked	7074 citing authors

#	Article	IF	Citations
1	PEG-modified gold nanorods with a stealth character for in vivo applications. Journal of Controlled Release, 2006, 114, 343-347.	9.9	1,098
2	Modification of Gold Nanorods Using Phosphatidylcholine to Reduce Cytotoxicity. Langmuir, 2006, 22, 2-5.	3.5	398
3	Rapid synthesis of gold nanorods by the combination of chemical reduction and photoirradiation processes; morphological changes depending on the growing processes. Chemical Communications, 2003, , 2376-2377.	4.1	220
4	PNIPAM Gel-Coated Gold Nanorods for Targeted Delivery Responding to a Near-Infrared Laser. Bioconjugate Chemistry, 2009, 20, 209-212.	3.6	219
5	Preparation of primary amine-modified gold nanoparticles and their transfection ability into cultivated cellsElectronic Supplementary Information (ESI) available: A TEM image of the complex at a w/w ratio of 11. See http://www.rsc.org/suppdata/cc/b4/b406189f/. Chemical Communications, 2004, , 1978.	4.1	185
6	Uniform and controllable preparation of Auâ€“Ag coreâ€“shell nanorods using anisotropic silver shell formation on gold nanorods. Nanoscale, 2010, 2, 1489.	5.6	169
7	Controlled release of plasmid DNA from gold nanorods induced by pulsed near-infrared light. Chemical Communications, 2005, , 2247.	4.1	156
8	Experimentally Determined Redox Potentials of Individual (n,m)â€…Singleâ€Walled Carbon Nanotubes. Angewandte Chemie - International Edition, 2009, 48, 7655-7659.	13.8	147
9	Stable Incorporation of Gold Nanorods intoN-Isopropylacrylamide Hydrogels and Their Rapid Shrinkage Induced by Near-Infrared Laser Irradiation. Langmuir, 2007, 23, 4012-4018.	3.5	144
10	Surface-Enhanced Nonresonance Raman Scattering from Size- and Morphology-Controlled Gold Nanoparticle Films. Journal of Physical Chemistry B, 2004, 108, 11660-11665.	2.6	128
11	One-pot Separation of Highly Enriched (6,5)-Single-walled Carbon Nanotubes Using a Fluorene-based Copolymer. Chemistry Letters, 2011, 40, 239-241.	1.3	127
12	Stabilizing of plasmid DNA in vivo by PEG-modified cationic gold nanoparticles and the gene expression assisted with electrical pulses. Journal of Controlled Release, 2006, 111, 382-389.	9.9	123
13	NIR Laserâ€Driven Reversible Volume Phase Transition of Singleâ€Walled Carbon Nanotube/Poly(Nâ€isopropylacrylamide) Composite Gels. Advanced Materials, 2008, 20, 3610-3614.	21.0	123
14	Rational Concept To Recognize/Extract Single-Walled Carbon Nanotubes with a Specific Chirality. Journal of the American Chemical Society, 2011, 133, 2651-2657.	13.7	122
15	Gold Nanorod-sensitized Cell Death: Microscopic Observation of Single Living Cells Irradiated by Pulsed Near-infrared Laser Light in the Presence of Gold Nanorods. Chemistry Letters, 2006, 35, 500-501.	1.3	118
16	Photothermal Reshaping of Gold Nanorods Depends on the Passivating Layers of the Nanorod Surfaces. Langmuir, 2008, 24, 12026-12031.	3.5	96
17	Observation of Crystallization of Vapor-deposited TPD Films by AFM and FFM. Chemistry Letters, 1994, 23, 969-972.	1.3	91
18	Photothermal reshaping of gold nanorods prevents further cell death. Nanotechnology, 2006, 17, 4431-4435.	2.6	91

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19	Surface-Enhanced Nonresonance Raman Scattering of Rhodamine 6G Molecules Adsorbed on Gold Nanorod Films. Japanese Journal of Applied Physics, 2004, 43, L554-L556.	1.5	80
20	Poly(ethylene glycol)-Modified Gold Nanorods as a Photothermal Nanodevice for Hyperthermia. Journal of Biomaterials Science, Polymer Edition, 2009, 20, 1203-1215.	3.5	78
21	Controlled-release system of single-stranded DNA triggered by the photothermal effect of gold nanorods and its in vivo application. Bioorganic and Medicinal Chemistry, 2011, 19, 2130-2135.	3.0	73
22	Enormous Size Growth of Thiol-passivated Gold Nanoparticles Induced by Near-IR Laser Light. Chemistry Letters, 2000, 29, 310-311.	1.3	68
23	Controlled-Release System Mediated by a Retro Dielsâ€“Alder Reaction Induced by the Photothermal Effect of Gold Nanorods. Langmuir, 2011, 27, 14621-14626.	3.5	63
24	Characterization of silver ions adsorbed on gold nanorods: surface analysis by using surface-assisted laser desorption/ionization time-of-flight mass spectrometry. Chemical Communications, 2009, , 1754.	4.1	62
25	Photochemical Reactions of Ketones to Synthesize Gold Nanorods. Langmuir, 2007, 23, 10353-10356.	3.5	56
26	Single-walled carbon nanotubes/DNA hybrids in water are highly stable. Chemical Physics Letters, 2008, 455, 249-251.	2.6	55
27	Multimode Resonances in Silver Nanocuboids. Langmuir, 2012, 28, 9103-9112.	3.5	55
28	Immobilization of Gold Nanorods on the Glass Substrate by the Electrostatic Interactions for Localized Plasmon Sensing. Chemistry Letters, 2004, 33, 454-455.	1.3	50
29	Strong Micro-Dielectric Environment Effect on the Band Gaps of (n,m)Single-Walled Carbon Nanotubes. Journal of the American Chemical Society, 2010, 132, 13072-13077.	13.7	50
30	Surface modification of gold nanorods using layer-by-layer technique for cellular uptake. Journal of Nanoparticle Research, 2008, 10, 221-228.	1.9	49
31	In Vivo Monitoring of Intravenously Injected Gold Nanorods Using Nearâ€Infrared Light. Small, 2008, 4, 1001-1007.	10.0	48
32	Green Tea Solution Individually Solubilizes Single-walled Carbon Nanotubes. Chemistry Letters, 2007, 36, 1140-1141.	1.3	46
33	Supramolecular Hybrid of Gold Nanoparticles and Semiconducting Single-Walled Carbon Nanotubes Wrapped by a Porphyrinâ€“Fluorene Copolymer. Journal of the American Chemical Society, 2011, 133, 14771-14777.	13.7	46
34	Adsorption characteristics of 4,4â€²-bipyridine molecules on gold nanosphere films studied by surface-enhanced Raman scattering. Thin Solid Films, 2006, 496, 740-747.	1.8	43
35	CW/pulsed NIR irradiation of gold nanorods: Effect on transdermal protein delivery mediated by photothermal ablation. Journal of Controlled Release, 2013, 171, 178-183.	9.9	43
36	Laser-Induced Deposition of Gold Nanoparticles onto Glass Substrates in Cyclohexane. Nano Letters, 2001, 1, 365-369.	9.1	41

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37	De Novo-designed Peptide Transforms Golgi-specific Lipids into Golgi-like Nanotubules. Journal of Biological Chemistry, 2001, 276, 41224-41228.	3.4	41
38	Active Accumulation of Gold Nanorods in Tumor in Response to Near-Infrared Laser Irradiation. Bioconjugate Chemistry, 2010, 21, 2049-2054.	3.6	41
39	Surface modification of gold nanorods with synthetic cationic lipids. Chemical Communications, 2007, , 3777.	4.1	39
40	Fundamental properties of oligo double-stranded DNA/single-walled carbon nanotube nanobiohybrids. Nanoscale, 2010, 2, 1767.	5.6	34
41	Anisotropic Gold-based Nanoparticles: Preparation, Properties, and Applications. Chemistry Letters, 2016, 45, 488-498.	1.3	33
42	Regulation of the Nearâ€IR Spectral Properties of Individually Dissolved Singleâ€Walled Carbon Nanotubes in Aqueous Solutions of dsDNA. Chemistry - A European Journal, 2008, 14, 5966-5973.	3.3	31
43	Dichroism of Poly(vinylalcohol) Films Containing Gold Nanorods Induced by Polarized Pulsed-Laser Irradiation. Japanese Journal of Applied Physics, 2003, 42, 1749-1750.	1.5	29
44	Particle-size effects on the photocurrent efficiency of nanostructured assemblies consisting of gold nanoparticles and a ruthenium complexâ€“viologen linked thiol. Journal of Electroanalytical Chemistry, 2003, 550-551, 303-307.	3.8	28
45	Expression of Plasmid DNA Released from DNA Conjugates of Gold Nanorods. Chemistry Letters, 2007, 36, 952-953.	1.3	26
46	Ultrafast spectroscopy and coherent acoustic phonons of Auâ€“Ag coreâ€“shell nanorods. Journal of Chemical Physics, 2011, 134, 054501.	3.0	26
47	Photochemical Reaction of Poly(ethylene glycol) on Gold Nanorods Induced by Near Infrared Pulsed-laser Irradiation. Chemistry Letters, 2009, 38, 226-227.	1.3	24
48	Efficient Separation of (6,5)â€…Singleâ€Walled Carbon Nanotubes Using a â€œNanometal Sinkerâ€• Angewandte Chemie - International Edition, 2009, 48, 5435-5438.	13.8	21
49	Rapid Formation of Silver Shells on Gold Nanorods in a Micellar Solution of Hexadecyltrimethylammonium Chloride. Chemistry Letters, 2009, 38, 60-61.	1.3	21
50	Spectroscopic Determination of the Electrochemical Potentials of n-Type Doped Carbon Nanotubes. Journal of Physical Chemistry C, 2012, 116, 5444-5449.	3.1	17
51	Observation of Defocus Images of a Single Metal Nanorod. Journal of Physical Chemistry C, 2013, 117, 2535-2540.	3.1	17
52	Sensing of oligopeptides using localized surface plasmon resonances combined with Surface-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry. Nanoscale, 2011, 3, 3793.	5.6	16
53	Effects of capping thiols on the laser-induced fusion of gold nanoparticles and deposition onto glass substrates in cyclohexane. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 247, 105-113.	4.7	15
54	Facile Fabrication of Morphology-Controlled Gold Nanoparticle Architectures by Electrolyte-Induced Agglomeration and Their Photoelectrochemical Applications. Langmuir, 2005, 21, 793-796.	3.5	15

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55	Pulsed-laser induced flocculation of carbon nanotubes solubilized by an anthracene-carrying polymer. Chemical Physics Letters, 2006, 429, 488-491.	2.6	15
56	Formation of Au@Pd@Cu coreâ€“shell nanorods from Au@Pd nanorods through a new stepwise growth mode. CrystEngComm, 2013, 15, 6553.	2.6	15
57	Imaging Mass Spectrometry of Intravenously Injected Gold Nanorods in Mice. Chemistry Letters, 2014, 43, 131-133.	1.3	14
58	Gold-Treated Silver Nanoparticles Have Enhanced Antimicrobial Activity. Bulletin of the Chemical Society of Japan, 2019, 92, 297-301.	3.2	14
59	Pulsed-Laser Induced Fragmentation and Dissociation of DNA Immobilized on Gold Nanoparticles. Molecular Crystals and Liquid Crystals, 2006, 445, 201/[491]-206/[496].	0.9	13
60	Effects of aliphatic tails on monolayer structures of hemicyanine dyes at the air/water interface as studied by in situ SHG measurements and surface pressure-area isotherms. Journal of Photochemistry and Photobiology A: Chemistry, 2000, 132, 75-80.	3.9	12
61	Deposition of indium oxide thin films assisted by gold nanoparticles in cyclohexane. Thin Solid Films, 2006, 513, 60-63.	1.8	12
62	Effect of Charge of a Matrix Polymer on the Electronic States of Single-Walled Carbon Nanotubes. Bulletin of the Chemical Society of Japan, 2012, 85, 1262-1267.	3.2	12
63	Effects of Anions on Electrochemical Reactions of Silver Shells on Gold Nanorods. Journal of Physical Chemistry C, 2013, 117, 2521-2530.	3.1	12
64	In situobservation of structural transformation of gold nanorods under pulsed laser irradiation in an HVEM. Microscopy (Oxford, England), 2014, 63, 261-268.	1.5	12
65	Imaging Mass Spectrometry of Gold Nanorods Distributed in Tumor Tissues. Chemistry Letters, 2015, 44, 931-933.	1.3	12
66	Photoinduced Release of Oligonucleotide-conjugated Silica-coated Gold Nanorods Accompanied by Moderate Morphological Changes. Chemistry Letters, 2008, 37, 718-719.	1.3	11
67	Microenvironment effect on the electronic potentials of individual (6,5)single-walled carbon nanotubes. Journal of Materials Chemistry C, 2014, 2, 5223.	5.5	11
68	Novel Method for Spatioselective Electroless Plating Catalyzed by Laser-Deposited Gold Nanoparticles. Japanese Journal of Applied Physics, 2003, 42, 7640-7641.	1.5	10
69	Novel Effects of Twin-tailed Cationic Surfactants on the Formation of Gold Nanorods. Chemistry Letters, 2007, 36, 1230-1231.	1.3	10
70	Ultra-high sensitivity detection of gold nanorods on a blotting membrane by laser induced desorption/ionization of gold ions. Analytical Methods, 2017, 9, 1177-1184.	2.7	10
71	Temperature Effects on Molecular Alignments at the Surface of Ultrathin Films Studied by SHG and Fluorescence Techniques.. Analytical Sciences, 1997, 13, 343-346.	1.6	9
72	Deposition of thiol-passivated gold nanoparticles onto glass plates by pulsed 532-nm laser irradiation: effects of thiol. Studies in Surface Science and Catalysis, 2001, 132, 359-362.	1.5	9

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73	End-to-end Assemblies of Gold Nanorods Adsorbed on a Glass Substrate Modified with Polyanion Polymers. Chemistry Letters, 2006, 35, 854-855.	1.3	9
74	Heat-induced morphological control of gold nanoparticle films for surface-enhanced Raman scattering (SERS) measurements. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2006, 284-285, 388-394.	4.7	9
75	Gold Nanoparticles as Mass-probe for Dot Blotting. Chemistry Letters, 2018, 47, 993-995.	1.3	9
76	Imaging mass spectrometry of gold nanoparticles in a tissue section as an immunohistochemical staining mass probe. Journal of Mass Spectrometry, 2019, 54, 1-6.	1.6	9
77	Photoinduced proton transfer in Langmuir-Blodgett films. Thin Solid Films, 1992, 210-211, 378-380.	1.8	8
78	In Situ Photoluminescence Spectroelectrochemistry of Single-walled Carbon Nanotubes with Nine Different Chiral Indices. Chemistry Letters, 2009, 38, 864-865.	1.3	8
79	Stepwise Preparation of Spherical Gold Nanoparticles Passivated with Cationic Amphiphiles. Analytical Sciences, 2016, 32, 875-880.	1.6	8
80	Effects of ammonium salts and anionic amphiphiles on the photochemical formation of gold nanorods. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 257-258, 161-164.	4.7	7
81	Formation of Gold Nanorodâ€“Myoglobin Aggregates by Electrostatic Interactions and Their Photochemical Properties. Japanese Journal of Applied Physics, 2008, 47, 1374-1376.	1.5	7
82	Assemblies of gold nanorods for efficient SALDI mass spectrometry. Optical Materials Express, 2016, 6, 1376.	3.0	7
83	Adsorption behaviors of methyl orange to alternate polyion films as studied by in-situ absorption and second harmonic generation measurements. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 198-200, 467-472.	4.7	6
84	Electrochemistry of an Open-Cage Fullerene Embedded in a Film of Hydrophobic Ammonium Ion on an Electrode. Journal of Physical Chemistry C, 2007, 111, 6500-6504.	3.1	6
85	Spectral dependence of gold nanorods on the optical properties of substrates and adsorption of polypeptides. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 221, 204-208.	3.9	6
86	Optical properties of Auâ€“Ag coreâ€“shell nanorods on glass and ITO substrates. Optics Communications, 2012, 285, 3419-3422.	2.1	6
87	Label-free Biosensor Using Polyion-modified Gold Nanorods Adsorbed on a Glass Substrate. Chemistry Letters, 2010, 39, 992-993.	1.3	5
88	PEG-silica-modified gold nanorods that retain their optical properties in tumor tissues. Journal of Biomaterials Science, Polymer Edition, 2013, 24, 2071-2080.	3.5	5
89	Reproducible Ionization of Gold Nanospheres and Nanostars in Gelatin Sections. Bulletin of the Chemical Society of Japan, 2020, 93, 58-64.	3.2	5
90	Novel Photoluminescent Gold Complexes Prepared at Octanethiolâ€“Water Interfaces: Control of Optical Properties by Addition of Silver Ions. Bulletin of the Chemical Society of Japan, 2021, 94, 1875-1881.	3.2	5

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91	Relationship between degree of dynamic morphological change and proliferative potential of murine embryonic stem cells. Journal of Bioscience and Bioengineering, 2008, 105, 58-60.	2.2	4
92	Electrochemical Deposition of Silver on Gold Electrodes in the Presence of Halogen Ions. Chemistry Letters, 2012, 41, 962-964.	1.3	4
93	Electrochemical Oxidation of Silver Shells on Gold Nanorods in Potassium Chloride and Phosphate Buffer Solutions. Chemistry Letters, 2013, 42, 1093-1095.	1.3	4
94	Spectroscopic properties of triangular silver nanoplates immobilized on polyelectrolyte multilayer-modified glass substrates. International Nano Letters, 2017, 7, 181-186.	5.0	4
95	Plasmon-enhanced two-photon excitation fluorescence of rhodamine 6G and an Eu-diketonate complex by a picosecond diode laser. Analyst, The, 2019, 144, 4045-4050.	3.5	4
96	Goldâ€“Silver and Goldâ€“Palladium Alloy Nanoparticles as Mass-Probes for Immunosensing. Analytical Sciences, 2021, 37, 1305-1307.	1.6	4
97	Extraction of Hexadecyltrimethylammonium Bromide from Gold Nanorod Solutions: Adsorption of Gold Nanorods on Anionic Glass Surfaces. Transactions of the Materials Research Society of Japan, 2007, 32, 421-424.	0.2	4
98	Effect of aliphatic tails on surface anchoring of amphiphilic ruthenium-polypyridine complexes in water-cast polymer films as studied by photoinduced electron-transfer and optical second harmonic generation. Thin Solid Films, 1999, 352, 1-5.	1.8	3
99	Preparation of Cationic Gold Nanoparticles in Aqueous Solutions of 2-Aminoethanethiol Hydrochloride. Bunseki Kagaku, 2005, 54, 521-526.	0.2	3
100	Spontaneous Temperature Control Using Reversible Spectroscopic Responses of PNIPAM-coated Gold Nanorods. Chemistry Letters, 2013, 42, 1247-1249.	1.3	3
101	Colloidal Dispersion of Gold Nanorods and Gold-Silver Core-Shell Nanorods in Polar Organic Solvents. Bulletin of the Chemical Society of Japan, 2017, 90, 161-168.	3.2	3
102	Surface-enhanced infrared absorption spectrometry of L-cysteine on laser-deposited gold nanoparticles. Bunseki Kagaku, 2003, 52, 661-664.	0.2	2
103	Control of Laser-Induced Deposition of Gold Nanoparticles on Glass Substrates for Localized Surface Plasmon Sensing. Bunseki Kagaku, 2006, 55, 675-679.	0.2	2
104	Redispersion of dried gold nanorods in the presence of 6-amino-1-hexanethiol hydrochloride. Journal of Nanoparticle Research, 2011, 13, 3413-3421.	1.9	2
105	Convenient approaches for the synthesis of gold nanowires by successive utilization of two kinds of reducing agents in the solution of hexadecyl-trimethylammonium bromide. Journal of Nanoparticle Research, 2011, 13, 6297-6303.	1.9	2
106	Escape Depth of Gold Ions in Tissue Sections. Materials Research Society Symposia Proceedings, 2015, 1719, 21.	0.1	2
107	Gold Nanorod-tags in Mucous Membrane of a Zebrafish. Chemistry Letters, 2019, 48, 1488-1491.	1.3	2
108	Effects of thiol capping agents on the laser-induced deposition of gold nanoparticles.. Bunseki Kagaku, 2002, 51, 797-801.	0.2	1

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109	Chirality-Dependent Changes in the Density of Single-Walled Carbon Nanotubes Oxidized by Tetrachloroaurate. Molecular Crystals and Liquid Crystals, 2011, 539, 184/[524]-189/[529].	0.9	1
110	Exchange of Oligonucleotide (dC15) on Single-walled Carbon Nanotubes. Materials Research Society Symposia Proceedings, 2012, 1407, 51.	0.1	1
111	Fractionation of Gold Nanorod Dimers by Stepwise Density Gradient Centrifugation. Chemistry Letters, 2017, 46, 1785-1788.	1.3	1
112	Anionic Gold Ions Desorbed from Gold Nanorods and Nanospheres. Analytical Sciences, 2021, , .	1.6	1
113	Mass signal intensity of Ag2+ ions desorbed from a single goldâ€“silver core-shell nanorod. International Journal of Mass Spectrometry, 2022, 473, 116795.	1.5	1
114	Aggregate Formation of Pyrene-1-Carboxylic Acid in an Ion-complexed Langmuir-Blodgett Film Induced by Contact with HCl Gas. Chemistry Letters, 1994, 23, 731-734.	1.3	0
115	Photoacoust1C Studies on Very Thin Poly(Methyl Methacrylate) Films Prepared by a Cast1Ng-On-Water Method. Spectroscopy Letters, 1999, 32, 371-382.	1.0	0
116	Spatio-selective surface modification of glass assisted by laser-induced deposition of gold nanoparticles. Thin Solid Films, 2006, 515, 1618-1622.	1.8	0
117	In vivo Monitoring of Gold Nanorods and Tissue Damage Mediated with Their Photothermal Effect. Materials Research Society Symposia Proceedings, 2008, 1138, 1.	0.1	0
118	Functional Controlled Release Systems Triggered by Photothermal Effect of Gold Nanorods. Materials Research Society Symposia Proceedings, 2009, 1241, 1.	0.1	0
119	Sensing of Oligopeptides Using Alternatively-Deposited Gold Nanorods for Surface-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry. Materials Research Society Symposia Proceedings, 2012, 1418, 145.	0.1	0
120	Spectroscopic Properties and SEM Observations of Au-Ag Core-shell Nanorods Deposited on ITO Plates. Bunseki Kagaku, 2014, 63, 857-865.	0.2	0
121	Gold Nanorod Mass-Probe to Trace the Biodistribution of Nanomaterials. Bunseki Kagaku, 2022, 71, 153-157.	0.2	0