Weiping Qian

List of Publications by Year
in descending order

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85 papers	3,163 citations	186209 28 h-index	155592 55 g-index
85 all docs	85 docs citations	85 times ranked	4739 citing authors

#	Article	IF	Citations
1	The synthesis of chitosan-based silver nanoparticles and their antibacterial activity. Carbohydrate Research, 2009, 344, 2375-2382.	1.1	548
2	Facile synthesis of Ag and Au nanoparticles utilizing chitosan as a mediator agent. Colloids and Surfaces B: Biointerfaces, 2008, 62, 136-142.	2.5	273
3	A Reproducible SERS Substrate Based on Electrostatically Assisted APTES-Functionalized Surface-Assembly of Gold Nanostars. ACS Applied Materials & Interfaces, 2011, 3, 1873-1879.	4.0	185
4	High-Q All-Dielectric Metasurface: Super and Suppressed Optical Absorption. ACS Photonics, 2020, 7, 1436-1443.	3.2	137
5	Chitosan as an active support for assembly of metal nanoparticles and application of the resultant bioconjugates in catalysis. Carbohydrate Research, 2010, 345, 74-81.	1.1	124
6	Three-Dimensionally Ordered Macroporous Polymer Materials:Â An Approach for Biosensor Applications. Langmuir, 2002, 18, 4526-4529.	1.6	103
7	A label-free biosensor based on gold nanoshell monolayers for monitoring biomolecular interactions in diluted whole blood. Biosensors and Bioelectronics, 2008, 23, 1166-1170.	5.3	99
8	Inhibition of Wnt/Î²-catenin signaling promotes epithelial differentiation of mesenchymal stem cells and repairs bleomycin-induced lung injury. American Journal of Physiology - Cell Physiology, 2014, 307, C234-C244.	2.1	84
9	Direct electrochemistry and electroanalysis of hemoglobin adsorbed in self-assembled films of gold nanoshells. Talanta, 2007, 72, 1134-1140.	2.9	65
10	Fabrication of large-scale gold nanoplate films as highly active SERS substrates for label-free DNA detection. Biosensors and Bioelectronics, 2013, 43, 193-199.	5.3	64
11	Isolation and characterization of lung resident mesenchymal stem cells capable of differentiating into alveolar epithelial type II cells. Cell Biology International, 2014, 38, 405-411.	1.4	64
12	A novel label-free amperometric immunosensor for carcinoembryonic antigen based on Ag nanoparticle decorated infinite coordination polymer fibres. Biosensors and Bioelectronics, 2014, 57, 219-225.	5.3	62
13	Development of Methodology Based on the Formation Process of Gold Nanoshells for Detecting Hydrogen Peroxide Scavenging Activity. Analytical Chemistry, 2009, 81, 8916-8922.	3.2	58
14	Inhibition of Wnt/Î²â€<scp>C</scp>atenin Signaling Promotes Engraftment of Mesenchymal Stem Cells to Repair Lung Injury. Journal of Cellular Physiology, 2014, 229, 213-224.	2.0	56
15	Activated Wnt signaling induces myofibroblast differentiation of mesenchymal stem cells, contributing to pulmonary fibrosis. International Journal of Molecular Medicine, 2014, 33, 1097-1109.	1.8	53
16	Immobilization of Antibodies on Ultraflat Polystyrene Surfaces. Clinical Chemistry, 2000, 46, 1456-1463.	1.5	52
17	Large-scale synthesis of ultrathin Au-Pt nanowires assembled on thionine/graphene with high conductivity and sensitivity for electrochemical immunosensor. Electrochimica Acta, 2014, 130, 335-343.	2.6	52
18	Gold-Nanoparticle-Infiltrated Polystyrene Inverse Opals: A Three-Dimensional Platform for Generating Combined Optical Properties. Chemistry of Materials, 2006, 18, 3385-3389.	3.2	51

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19	Direct formation of silver nanoparticles in cuttlebone-derived organic matrix for catalytic applications. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 330, 234-240.	2.3	51
20	Determination of hydrogen peroxide scavenging activity of phenolic acids by employing gold nanoshells precursor composites as nanoprobes. Food Chemistry, 2011, 126, 698-704.	4.2	43
21	In-Situ Incorporation of Gold Nanoparticles of Desired Sizes into Three-Dimensional Macroporous Matrixes. Langmuir, 2006, 22, 7105-7108.	1.6	42
22	Mass synthesis of single-crystal gold nanosheets based on chitosan. Carbohydrate Research, 2007, 342, 2494-2499.	1.1	40
23	Targeted inhibition of disheveled PDZ domain via NSC668036 depresses fibrotic process. Experimental Cell Research, 2015, 331, 115-122.	1.2	36
24	Bimetallic goldâ€“silver nanoplate array as a highly active SERS substrate for detection of streptavidin/biotin assemblies. Analytica Chimica Acta, 2013, 805, 95-100.	2.6	34
25	Biomolecule-based formaldehyde resin microspheres loaded with Au nanoparticles: A novel immunoassay for detection of tumor markers in human serum. Biosensors and Bioelectronics, 2014, 53, 346-354.	5.3	32
26	Competitive protein adsorption on biomaterial surface studied with reflectometric interference spectroscopy. Acta Biomaterialia, 2010, 6, 2083-2090.	4.1	29
27	An electrochemical immunosensor for simultaneous multiplexed detection of two lung cancer biomarkers using Au nanoparticles coated resin microspheres composed of L-tryptophan and caffeic acid. Ionics, 2015, 21, 1141-1152.	1.2	29
28	SERS tags-based novel monodispersed hollow gold nanospheres for highly sensitive immunoassay of CEA. Journal of Materials Science, 2015, 50, 3329-3336.	1.7	29
29	Novel and Simple Route to Fabricate 2D Ordered Gold Nanobowl Arrays Based on 3D Colloidal Crystals. Langmuir, 2011, 27, 13308-13313.	1.6	28
30	Interference Effect of Silica Colloidal Crystal Films and Their Applications to Biosensing. Analytical Chemistry, 2019, 91, 6080-6087.	3.2	28
31	Chitosan-Mediated Synthesis of Gold Nanoparticles by UV Photoactivation and Their Characterization. Journal of Nanoscience and Nanotechnology, 2006, 6, 2508-2514.	0.9	27
32	Raman spectroscopy for hydrogen peroxide scavenging activity assay using gold nanoshell precursor nanocomposites as SERS probes. Analytical Methods, 2011, 3, 274-279.	1.3	27
33	In Situ controllable preparation of gold nanorods in thermo-responsive hydrogels and their application in surface enhanced Raman scattering. Journal of Materials Chemistry, 2010, 20, 8711.	6.7	26
34	Growth-sensitive gold nanoshells precursor nanocomposites for the detection of l-DOPA and tyrosinase activity. Biosensors and Bioelectronics, 2011, 26, 1902-1907.	5.3	26
35	Intracellular surface-enhanced Raman scattering probes based on TAT peptide-conjugated Au nanostars for distinguishing the differentiation of lung resident mesenchymal stem cells. Biomaterials, 2015, 58, 10-25.	5.7	26
36	Growth-sensitive 3D ordered gold nanoshells precursor composite arrays as SERS nanoprobes for assessing hydrogen peroxide scavenging activity. Analyst, The, 2011, 136, 769-774.	1.7	25

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37	Glucose-responsive multifunctional acupuncture needle: A universal SERS detection strategy of small biomolecules in vivo. Analytical Methods, 2012, 4, 3879.	1.3	24
38	Free radical-quenched SERS probes for detecting H₂O₂ and glucose. Analyst, The, 2015, 140, 2741-2746.	1.7	23
39	A Multiplexed SERS-Active Microneedle for Simultaneous Redox Potential and pH Measurements in Rat Joints. ACS Applied Bio Materials, 2019, 2, 2102-2108.	2.3	23
40	Surface-enhanced Raman spectroscopic detection and differentiation of lung cancer cell lines (A549,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 64225-64234.	1.7	21
41	Multiplexing determination of lung cancer biomarkers using electrochemical and surface-enhanced Raman spectroscopic techniques. New Journal of Chemistry, 2015, 39, 5420-5430.	1.4	21
42	Phenolic acid induced growth of gold nanoshells precursor composites and their application in antioxidant capacity assay. Biosensors and Bioelectronics, 2010, 26, 1049-1055.	5.3	20
43	A cuttlebone-derived matrix substrate for hydrogen peroxide/glucose detection. Biosensors and Bioelectronics, 2009, 25, 362-367.	5.3	19
44	Real-Time and Label-Free Monitoring of Biomolecular Interactions within Complex Biological Media Using a Silica Colloidal Crystal Film. ACS Applied Materials & Interfaces, 2020, 12, 35950-35957.	4.0	19
45	Determination of Carcinoembryonic Antigen by Surface-Enhanced Raman Spectroscopy Using Gold Nanobowl Arrays. Analytical Letters, 2017, 50, 982-998.	1.0	18
46	The strategy of two-scale interface enrichment for constructing ultrasensitive SERS substrates based on the coffee ring effect of AgNP@Î²-CD. RSC Advances, 2016, 6, 29586-29591.	1.7	16
47	Reflectometry Interference Spectroscopy in Detection of Hepatitis B Surface Antigen. Clinical Chemistry, 2000, 46, 1489-1490.	1.5	14
48	Ordered Silica Nanosphere Templates: Large-Area Assembly and Characterization. Journal of Nanoscience and Nanotechnology, 2018, 18, 8367-8375.	0.9	13
49	A builtâ€in surfaceâ€enhanced Raman scatteringâ€active microneedle for sampling in vivo and surfaceâ€enhanced Raman scattering detection ex vivo of NO. Journal of Raman Spectroscopy, 2018, 49, 1747-1755.	1.2	12
50	Using Reflectometric Interference Spectroscopy to Real-Time Monitor Amphiphile-Induced Orientational Responses of Liquid-Crystal-Loaded Silica Colloidal Crystal Films. Analytical Chemistry, 2020, 92, 12071-12078.	3.2	12
51	All-Dielectric Metasurface for Sensing Microcystin-LR. Electronics (Switzerland), 2021, 10, 1363.	1.8	12
52	3D ordered gold nanoshell composite array as sensitive SERS nanosensor for detecting l-DOPA and tyrosinase activity. Analytical Methods, 2011, 3, 1969.	1.3	11
53	Plasmonic biosensors and nanoprobes based on gold nanoshells. Science Bulletin, 2011, 56, 3234.	1.7	11
54	Detection of Redox State Evolution during Wound Healing Process Based on a Redox-Sensitive Wound Dressing. Analytical Chemistry, 2018, 90, 6660-6665.	3.2	11

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55	In-situ synthesis of silver nanoparticles on resin microspheres composed of poly(m-aminophenol), and their application in an enzymatic glucose biosensor. Mikrochimica Acta, 2015, 182, 479-486.	2.5	10
56	Effects of cooling treatment and glutaraldehyde on the morphology of Au nanostructures synthesized from chitosan. Carbohydrate Research, 2008, 343, 512-520.	1.1	9
57	Gold nanoflowers modified ITO glass as SERS substrate for carbon tetrachloride-induced acute liver injury in vitro detection. RSC Advances, 2016, 6, 115189-115195.	1.7	9
58	Fabrication of SERS substrates containing dense â€œhot spotsâ€•by assembling star-shaped nanoparticles on superhydrophobic surfaces. New Journal of Chemistry, 2017, 41, 5028-5033.	1.4	9
59	Construction of lipid layer and monitoring its digestion by optical interferometry. Food Chemistry, 2022, 366, 130553.	4.2	9
60	A SERS protocol as a potential tool to access 6-mercaptopurine release accelerated by glutathione-S-transferase. Analyst, The, 2015, 140, 7578-7585.	1.7	8
61	Two-in-one: Au nanocages with a highly open architecture and â€œhotspotâ€•effect as SERS-active substrates. CrystEngComm, 2017, 19, 3233-3236.	1.3	8
62	Au nanoparticle decorated resin microspheres: synthesis and application in electrochemical cytosensors for sensitive and selective detection of lung cancer A549 cells. RSC Advances, 2015, 5, 24615-24624.	1.7	7
63	Process characterization of epithelialâ€“mesenchymal transition in alveolar epithelial type II cells using surface-enhanced Raman scattering spectroscopy. RSC Advances, 2016, 6, 14321-14328.	1.7	7
64	Construction of Optical Interference Fibrin and Thrombolysis Analysis with Silica Colloidal Crystal Films. Langmuir, 2021, 37, 7264-7272.	1.6	7
65	Regenerating Optical Properties of Individual Gold Nanoparticles in Alcoholic Solvents without any Surfactant. Journal of Nanoscience and Nanotechnology, 2006, 6, 262-264.	0.9	7
66	Real-time monitoring of immunoglobulin G levels in milk using an ordered porous layer interferometric optical sensor. Talanta, 2022, 237, 122958.	2.9	7
67	Real-time monitoring of interactions between dietary fibers and lipid layer and their impact on the lipolysis process. Food Hydrocolloids, 2022, 125, 107445.	5.6	6
68	Insights into the interaction between chitosan and pepsin by optical interferometry. International Journal of Biological Macromolecules, 2022, 203, 563-571.	3.6	6
69	Two Types of Immunoassay Based on Nile Blue Labeling Polydopamine Nanospheres. Nano, 2017, 12, 1750092.	0.5	5
70	Redox State Detection of Fruits and Vegetables by a Simple Surface-Enhanced Raman Scattering Method. Journal of Nanoscience and Nanotechnology, 2018, 18, 4891-4897.	0.9	5
71	Monitoring of Binding Affinity Between Drugs and Human Serum Albumin Using Reflectometric Interference Spectroscopy with Silica Colloidal Crystal Films. Nano, 2021, 16, 2150052.	0.5	5
72	XPS, AFM and EIA Studies of IgG Molecules Site-Directed Immobilized on APTES Modified Silicon Wafer Surfaces. Molecular Crystals and Liquid Crystals, 1999, 337, 277-280.	0.3	4

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73	Effective Hotspot Arrays Based on Non-Close-Packed Gold Nanoshells in Microporous Polystyrene Film on Acupuncture Needles. Journal of Nanoscience and Nanotechnology, 2015, 15, 3987-3993.	0.9	4
74	A SERS method for thermal neutron detection. Journal of Raman Spectroscopy, 2018, 49, 1190-1197.	1.2	4
75	Detection of Redox Status and pH of Fruits and Vegetables Using a Multiplexed SERS-Active Microneedle. ACS Food Science & Technology, 2021, 1, 1787-1791.	1.3	4
76	Shape-Controlled Synthesis of Gold Nanoplates and Their Self-Assembly by Repulsive Electrostatic Interactions. Journal of Nanoscience and Nanotechnology, 2012, 12, 4514-4522.	0.9	3
77	Ni-introduced CuAu nanocages: facile co-reduction synthesis of a novel magnetic multi-metallic nanostructure with high peroxidase mimetic activity. CrystEngComm, 2018, 20, 1978-1984.	1.3	3
78	Substrate-Immersed Solvothermal Synthesis of Ordered SiO2/Ag Arrays as Catalytic SERS Substrates. Nano, 2018, 13, 1850049.	0.5	3
79	Dynamically Monitoring pH in Living Organisms Based on a SERSâ€Active Optical Fiber. Advanced Materials Interfaces, 2022, 9, .	1.9	3
80	Synthesis and Characterization of Silver Nanoparticle Modified 3-Aminophenol Resin Microspheres with Application for Determination of Carcinoembryonic Antigens by Surface-Enhanced Raman Scattering. Analytical Letters, 2015, 48, 2245-2257.	1.0	2
81	A Novel Protein Corona Characterization based on the Reflectometric Interference Spectroscopy with Silica Colloidal Crystal Films. Acta Chimica Sinica, 2021, 79, 338.	0.5	1
82	An Atomic Force Microscopic Study of Pore Wall Structures of p-Type Macroporous Silicon. Molecular Crystals and Liquid Crystals, 1999, 337, 281-284.	0.3	0
83	SERS chips in an acupuncture needle for interaction in vivo and readout ex vivo of multiple parameters. Journal of Raman Spectroscopy, 2021, 52, 1256.	1.2	0
84	Effect of Relative Humidity on the Thickness of Assembled Silica Colloidal Crystal Films. Journal of Nanoscience and Nanotechnology, 2021, 21, 5215-5221.	0.9	0
85	The SERS Applications of Star-shaped Gold Nanoparticles. , 2017, , .		0