

CITATION REPORT

List of articles citing

In vivo tumor targeting and spectroscopic detection with surface-enhanced Raman nanoparticle tags

DOI: 10.1038/nbt1377

Nature Biotechnology, 2008, 26, 83-90.

Source: <https://exaly.com/paper-pdf/43659020/citation-report.pdf>

Version: 2024-04-25

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
2049	Lipid Bilayer-Enabled Synthesis of Waxberry-like CoreFluidic Satellite Nanoparticles: Toward Ultrasensitive Surface-Enhanced Raman Scattering Tags for Bioimaging.		
2048	.		
2047	Peptide immobilized on gold particles enhances cell growth. 2008 , 58, 141-4		8
2046	Electrode modified with toluidine blue-doped silica nanoparticles, and its use for enhanced amperometric sensing of hemoglobin. 2008 , 391, 1951-9		19
2045	Semiconductor quantum dots and metal nanoparticles: syntheses, optical properties, and biological applications. 2008 , 391, 2469-95		428
2044	Effect of nucleases on the cellular internalization of fluorescent labeled DNA-functionalized single-walled carbon nanotubes. 2008 , 1, 351-360		21
2043	Novel nanostructures for SERS biosensing. 2008 , 3, 31-37		351
2042	Nanostructured surfaces and assemblies as SERS media. 2008 , 4, 1576-99		668
2041	Development of polymer-encapsulated metal nanoparticles as surface-enhanced Raman scattering probes. 2009 , 5, 198-202		129
2040	Raman spectroscopy and microscopy of individual cells and cellular components. 2008 , 2, 325-349		99
2039	Drug-loaded superparamagnetic iron oxide nanoparticles for combined cancer imaging and therapy in vivo. 2008 , 47, 5362-5		517
2038	Drug-Loaded Superparamagnetic Iron Oxide Nanoparticles for Combined Cancer Imaging and Therapy In Vivo. 2008 , 120, 5442-5445		54
2037	Nano-biophotonics: new tools for chemical nano-analytics. 2008 , 12, 497-504		17
2036	Electron microscopy localization and characterization of functionalized composite organic-inorganic SERS nanoparticles on leukemia cells. 2008 , 109, 111-21		43
2035	Synthesis, characterization, and in vivo diagnostic applications of hyaluronic acid immobilized gold nanopores. 2008 , 29, 4709-18		163
2034	Multifunctional nanoparticles--properties and prospects for their use in human medicine. 2008 , 26, 425-33		623
2033	Biological applications of gold nanoparticles. 2008 , 37, 1896-908		1430

2032	Highly efficient drug delivery with gold nanoparticle vectors for in vivo photodynamic therapy of cancer. 2008 , 130, 10643-7	610
2031	Advances and prospects of gold nanorods. 2008 , 3, 2010-22	111
2030	PEGylated gold nanoparticles conjugated to monoclonal F19 antibodies as targeted labeling agents for human pancreatic carcinoma tissue. 2008 , 2, 2263-72	223
2029	Single-molecule and single-nanoparticle SERS: from fundamental mechanisms to biomedical applications. 2008 , 37, 912-20	924
2028	Optical molecular imaging: from single cell to patient. 2008 , 84, 267-71	19
2027	Nanoparticle therapeutics: an emerging treatment modality for cancer. 2008 , 7, 771-82	3332
2026	Noninvasive radiofrequency ablation of cancer targeted by gold nanoparticles. 2008 , 144, 125-32	154
2025	Wired-enzyme core-shell Au nanoparticle biosensor. 2008 , 130, 12690-7	112
2024	The synthesis of SERS-active gold nanoflower tags for in vivo applications. 2008 , 2, 2473-80	523
2023	Intracellular applications of analytical SERS spectroscopy and multispectral imaging. 2008 , 37, 993-1000	99
2022	Shaping and Shelling Pt and Pd Nanoparticles for Ultraviolet Laser Excited Surface-Enhanced Raman Scattering. 2008 , 112, 17618-17624	35
2021	Luminescent and Raman active silver nanoparticles with polycrystalline structure. 2008 , 130, 10472-3	115
2020	Clean substrates prepared by chemical adsorption of iodide followed by electrochemical oxidation for surface-enhanced Raman spectroscopic study of cell membrane. <i>Analytical Chemistry</i> , 2008 , 80, 5118-25	58
2019	Noninvasive Raman spectroscopy in living mice for evaluation of tumor targeting with carbon nanotubes. 2008 , 8, 2800-5	243
2018	Novel Optical Properties and Emerging Applications of Metal Nanostructures□ 2008 , 112, 10323-10337	259
2017	Gold nanoparticles: From nanomedicine to nanosensing. 2008 , 1, 45-65	225
2016	Recent advances in nanomaterial plasmonics: fundamental studies and applications. 2008 , 62, 346A-362A	22
2015	Synergistically integrated nanoparticles as multimodal probes for nanobiotechnology. 2008 , 41, 1630-40	592

2014	Practical understanding and use of surface enhanced Raman scattering/surface enhanced resonance Raman scattering in chemical and biological analysis. 2008 , 37, 955-64	275
2013	Electrochemical surface-enhanced Raman spectroscopy of nanostructures. 2008 , 37, 1025-41	449
2012	Surface-enhanced Raman nanoparticle beacons based on bioconjugated gold nanocrystals and long range plasmonic coupling. 2008 , 130, 14934-5	214
2011	Multiplexed multicolor Raman imaging of live cells with isotopically modified single walled carbon nanotubes. 2008 , 130, 13540-1	233
2010	Spectral analysis of multiplex Raman probe signatures. 2008 , 2, 2306-14	142
2009	SURFACE-ENHANCED RAMAN SCATTERING: PRINCIPLES, NANOSTRUCTURES, FABRICATIONS, AND BIOMEDICAL APPLICATIONS. 2008 , 01, 267-284	17
2008	Mit Licht Tumoren auf der Spur. 2008 , 56, 640-644	1
2007	Applications of gold nanoparticles in cancer nanotechnology. 2008 , 1, 17-32	549
2006	Imaging of integrins as biomarkers for tumor angiogenesis. 2008 , 14, 2943-73	174
2005	Advances of cancer therapy by nanotechnology. 2009 , 41, 1-11	140
2004	A novel method for detection of phosphorylation in single cells by surface enhanced Raman scattering (SERS) using composite organic-inorganic nanoparticles (COINs). 2009 , 4, e5206	36
2003	Multi-color Raman nanotags for tumor cell biomarker detection. 2009 , 2009, 6314-7	2
2002	Multiplexed imaging of surface enhanced Raman scattering nanotags in living mice using noninvasive Raman spectroscopy. 2009 , 106, 13511-6	575
2001	The effect of design parameters of metallic substrate on the reproducibility of SERS measurement for biosensing. 2009 ,	3
2000	Application of Nanobiotechnology in Cancer Therapeutics. 2009 , 245-268	2
1999	Semiconductor Quantum Dots for Cell Imaging. 2009 , 1237, 1	
1998	Targeting the extracellular signature of metastatic colorectal cancers. 2009 , 13, 363-79	5
1997	Preparation of lisinopril-capped gold nanoparticles for molecular imaging of angiotensin-converting enzyme. 2009 ,	

1996	Gold-Based Magneto/Optical Nanostructures: Challenges for In Vivo Applications in Cancer Diagnostics and Therapy. 2009 , 34, 415-421	77
1995	Fluctuation in surface enhanced Raman scattering intensity due to plasmon related heating effect. 2009 ,	3
1994	One-pot synthesis of multifunctional mesoporous silica nanoparticle incorporated with zinc(II) phthalocyanine and iron oxide. 2009 , 61, 1137-1140	18
1993	Acute toxicity and pharmacokinetics of 13 nm-sized PEG-coated gold nanoparticles. 2009 , 236, 16-24	480
1992	Gold nanorods: from synthesis and properties to biological and biomedical applications. 2009 , 21, 4880-4910	1473
1991	SERS-Coded Gold Nanorods as a Multifunctional Platform for Densely Multiplexed Near-Infrared Imaging and Photothermal Heating. 2009 , 21, 3175-3180	388
1990	SERS-Marker für die Anregung mit rotem Laserlicht: Glasverkapselte SAMs auf Gold/Silber-Nanoschalen. 2009 , 121, 1984-1987	12
1989	All-in-One Target-Cell-Specific Magnetic Nanoparticles for Simultaneous Molecular Imaging and siRNA Delivery. 2009 , 121, 4238-4243	49
1988	SERS microscopy: nanoparticle probes and biomedical applications. 2009 , 10, 1344-54	325
1987	Optical probing and imaging of live cells using SERS labels. 2009 , 40, 1-5	135
1986	SERS labels for red laser excitation: silica-encapsulated SAMs on tunable gold/silver nanoshells. 2009 , 48, 1950-3	184
1985	All-in-one target-cell-specific magnetic nanoparticles for simultaneous molecular imaging and siRNA delivery. 2009 , 48, 4174-9	310
1984	Surface enhanced Raman spectroscopy and its application to molecular and cellular analysis. 2009 , 6, 285-297	159
1983	Applications, techniques, and microfluidic interfacing for nanoscale biosensing. 2009 , 7, 149-167	53
1982	Influence of anchoring ligands and particle size on the colloidal stability and in vivo biodistribution of polyethylene glycol-coated gold nanoparticles in tumor-xenografted mice. 2009 , 30, 1928-36	448
1981	SERS-based plasmonic nanobiosensing in single living cells. 2009 , 393, 1135-41	108
1980	Surface-enhanced Raman scattering for protein detection. 2009 , 394, 1719-27	293
1979	Toward a miniaturized mechanical surgeon. 2009 , 12, 14-20	53

1978	Systematic surface engineering of magnetic nanoworms for in vivo tumor targeting. 2009 , 5, 694-700	238
1977	Understanding biophysicochemical interactions at the nano-bio interface. 2009 , 8, 543-57	5239
1976	Preparation of carbon nanotube bioconjugates for biomedical applications. 2009 , 4, 1372-82	356
1975	Translational nanomedicine: status assessment and opportunities. 2009 , 5, 251-73	89
1974	Surface-enhanced Raman scattering imaging of HER2 cancer markers overexpressed in single MCF7 cells using antibody conjugated hollow gold nanospheres. 2009 , 24, 2260-3	156
1973	Single chain fragment variable recombinant antibody functionalized gold nanoparticles for a highly sensitive colorimetric immunoassay. 2009 , 24, 2853-7	71
1972	Molecular Imaging with Single-Walled Carbon Nanotubes. 2009 , 4, 252-261	114
1971	Chemical analysis in vivo and in vitro by Raman spectroscopy--from single cells to humans. 2009 , 20, 63-73	150
1970	Polymer-encapsulated silver nanoparticle monomer and dimer for surface-enhanced Raman scattering. 2009 , 473, 317-320	18
1969	Protein separation and identification using magnetic beads encoded with surface-enhanced Raman spectroscopy. 2009 , 391, 24-30	59
1968	Gold nanoparticles in nanomedicine: preparations, imaging, diagnostics, therapies and toxicity. 2009 , 38, 1759-82	2188
1967	Gold nanoparticles as a contrast agent for in vivo tumor imaging with photoacoustic tomography. 2009 , 20, 395102	177
1966	Poly(ethylene glycol)-stabilized silver nanoparticles for bioanalytical applications of SERS spectroscopy. 2009 , 134, 1868-72	75
1965	Multifunctional Nanoparticles as Biocompatible Targeted Probes for Human Cancer Diagnosis and Therapy. 2009 , 19, 4655-4672	175
1964	Stimuli-responsive SERS nanoparticles: conformational control of plasmonic coupling and surface Raman enhancement. 2009 , 131, 7540-1	153
1963	Fluorescent magnetic nanoparticles for imaging and cell manipulation. 2009 , 223, 81-86	1
1962	SERRS coded nanoparticles for biomolecular labelling with wavelength-tunable discrimination. 2009 , 134, 549-56	19
1961	Optical signal comparison of single fluorescent molecules and Raman active gold nanostars. 2009 , 9, 3816-9	42

1960	Scattering imaging of single quantum dots with dark-field microscopy. <i>Analytical Chemistry</i> , 2009 , 81, 7507-9	7.8	17
1959	Drug nanocarriers labeled with near-infrared-emitting quantum dots (quantoplexes): imaging fast dynamics of distribution in living animals. 2009 , 17, 1849-56		81
1958	Strategy for molecular beacon binding readout: separating molecular recognition element and signal reporter. <i>Analytical Chemistry</i> , 2009 , 81, 9703-9	7.8	52
1957	Generalized Approach to SERS-Active Nanomaterials via Controlled Nanoparticle Linking, Polymer Encapsulation, and Small-Molecule Infusion. 2009 , 113, 13622-13629		149
1956	A Facile One-Pot Synthesis of Hydroxyl-Functionalized Gold Polyhedrons by a Surface Regulating Copolymer. 2009 , 21, 939-944		19
1955	High-sensitivity Raman scattering substrate based on Au/La(0.7)Sr(0.3)MnO(3) periodic arrays. 2009 , 1, 2484-90		11
1954	Rapid Raman imaging of stable, functionalized nanoshells in mammalian cell cultures. 2009 , 9, 2914-20		34
1953	Nuclear targeted nanoprobe for single living cell detection by surface-enhanced Raman scattering. 2009 , 20, 768-73		100
1952	Label-free biochemical imaging of heart tissue with high-speed spontaneous Raman microscopy. 2009 , 382, 370-4		71
1951	Diagnostic biomarkers for renal cell carcinoma: selection using novel bioinformatics systems for microarray data analysis. 2009 , 40, 1671-8		18
1950	Tumor targeting and imaging in live animals with functionalized semiconductor quantum rods. 2009 , 1, 710-9		80
1949	Tailored second harmonic generation from self-organized metal nano-wires arrays. 2009 , 17, 3603-9		44
1948	Targeted surface-enhanced Raman scattering nanosensors for whole-cell pH imagery. 2009 , 63, 387-95		32
1947	Gold nanoparticle based surface-enhanced Raman scattering spectroscopy of cancerous and normal nasopharyngeal tissues under near-infrared laser excitation. 2009 , 63, 1089-94		83
1946	Quantitative surface-enhanced Raman for gene expression estimation. 2009 , 96, 4709-16		48
1945	Fiber optic SERS-based plasmonics nanobiosensing in single living cells. 2009 ,		
1944	Metallic Nanostructures as Localized Plasmon Resonance Enhanced Scattering Probes for Multiplex Dark Field Targeted Imaging of Cancer Cells. 2009 , 113, 2676-2684		136
1943	The synthesis of biocompatible and SERS-active gold nanoparticles using chitosan. 2009 , 20, 315602		74

1942	Tamoxifen-poly(ethylene glycol)-thiol gold nanoparticle conjugates: enhanced potency and selective delivery for breast cancer treatment. 2009 , 20, 2247-53		208
1941	SERS of semiconducting nanoparticles (TiO ₂) hybrid composites). 2009 , 131, 6040-1		348
1940	High throughput single nanoparticle spectroscopy. 2009 , 3, 1477-84		51
1939	Protein-mediated sandwich strategy for surface-enhanced Raman scattering: application to versatile protein detection. <i>Analytical Chemistry</i> , 2009 , 81, 3350-5	7.8	102
1938	The dosimetric feasibility of gold nanoparticle-aided radiation therapy (GNRT) via brachytherapy using low-energy gamma-/x-ray sources. 2009 , 54, 4889-905		172
1937	Green Nanotechnology from Tea: Phytochemicals in Tea as Building Blocks for Production of Biocompatible Gold Nanoparticles. 2009 , 19, 2912-2920		297
1936	Functional DNA directed assembly of nanomaterials for biosensing. 2009 , 19,		120
1935	Highly controlled silica coating of PEG-capped metal nanoparticles and preparation of SERS-encoded particles. 2009 , 25, 13894-9		176
1934	Bifunctional Nanocomposites with Long-Term Stability as SERS Optical Accumulators for Ultrasensitive Analysis. 2009 , 113, 3373-3377		63
1933	Nanoparticulate assemblies of amphiphiles and diagnostically active materials for multimodality imaging. 2009 , 42, 904-14		223
1932	Polyvinylpyrrolidone- (PVP-) coated silver aggregates for high performance surface-enhanced Raman scattering in living cells. 2009 , 20, 445102		57
1931	Computationally guided photothermal tumor therapy using long-circulating gold nanorod antennas. 2009 , 69, 3892-900		881
1930	Selective Detection of Proteins and Nucleic Acids with Biofunctionalized SERS Labels. 2009 , 267-288		6
1929	Imaging inflammation in real time--future of nanoparticles. 2009 , 42, 368-72		5
1928	Mn-doped near-infrared quantum dots as multimodal targeted probes for pancreatic cancer imaging. 2009 , 20, 015102		63
1927	Nanoscale aggregation of cellular beta2-adrenergic receptors measured by plasmonic interactions of functionalized nanoparticles. 2009 , 3, 2329-39		49
1926	Characteristics of surface-enhanced Raman scattering and surface-enhanced fluorescence using a single and a double layer gold nanostructure. 2009 , 11, 7484-90		19
1925	Vibrational spectroscopy: a clinical tool for cancer diagnostics. 2009 , 134, 1029-45		226

1924	Visualizing systemic clearance and cellular level biodistribution of gold nanorods by intrinsic two-photon luminescence. 2009 , 25, 12454-9	44
1923	Mediating tumor targeting efficiency of nanoparticles through design. 2009 , 9, 1909-15	1180
1922	In vivo Raman flow cytometry for real-time detection of carbon nanotube kinetics in lymph, blood, and tissues. 2009 , 14, 021006	48
1921	Effects of quantum dots in polymerase chain reaction. 2009 , 113, 7637-41	44
1920	Large-scale synthesis of flexible free-standing SERS substrates with high sensitivity: electrospun PVA nanofibers embedded with controlled alignment of silver nanoparticles. 2009 , 3, 3993-4002	338
1919	Gastrin releasing protein receptor specific gold nanorods: breast and prostate tumor avid nanovectors for molecular imaging. 2009 , 9, 1798-805	110
1918	Design and Synthesis of Dual Thermoresponsive and Antifouling Hybrid Polymer/Gold Nanoparticles. 2009 , 42, 6917-6926	170
1917	Self-assembly approach to multiplexed surface-enhanced Raman spectral-encoder beads. <i>Analytical Chemistry</i> , 2009 , 81, 7181-8	7.8 26
1916	Rapid cell mapping using nanoparticles and SERRS. 2009 , 134, 170-5	22
1915	Applications of fiber-optics-based nanosensors to drug discovery. 2009 , 4, 889-900	13
1914	Targeting and detecting cancer cells using spontaneously formed multifunctional dendrimer-stabilized gold nanoparticles. 2009 , 134, 1373-9	77
1913	Quantification and reactivity of functional groups in the ligand shell of PEGylated gold nanoparticles via a fluorescence-based assay. 2009 , 25, 7910-7	50
1912	Polymer-functionalized nanodiamond platforms as vehicles for gene delivery. 2009 , 3, 2609-16	316
1911	SERS detection and boron delivery to cancer cells using carborane labelled nanoparticles. 2009 , 6750-2	40
1910	Redox molecule based SERS sensors. 2009 , 11, 7412-23	20
1909	Targeted photothermal ablation of murine melanomas with melanocyte-stimulating hormone analog-conjugated hollow gold nanospheres. 2009 , 15, 876-86	276
1908	Drug nanocarriers and functional nanoparticles: applications in cancer therapy. 2009 , 6, 391-403	59
1907	Functionalised nanoparticles and SERRS for bioanalysis. 2009 ,	

1906	Recent Innovations in Antibody-Mediated, Targeted Particulate Nanotechnology and Implications for Advanced Visualisation and Drug Delivery. 2010 , 6, 560-570	1
1905	SERS from ellipsoidal nanoparticles. 2010 ,	
1904	Cellular Interactions of Plasmon-Resonant Gold Nanorods. 2010 , 507-533	
1903	Spherical and Anisotropic Silver Nanomaterials in Medical Diagnosis. 2010 ,	
1902	Nanoparticles for Cancer Detection and Therapy. 2010 , 51	5
1901	Subcellular Fate of Nanodelivery Systems. 2010 , 93-121	
1900	SERS-active gold lace nanoshells with built-in hotspots. 2010 , 10, 4013-9	142
1899	Molecular diagnostic and drug delivery agents based on aptamer-nanomaterial conjugates. 2010 , 62, 592-605	241
1898	Biocompatibility and biodistribution of surface-enhanced Raman scattering nanoprobes in zebrafish embryos: in vivo and multiplex imaging. 2010 , 4, 4039-53	122
1897	Fluorescent, superparamagnetic nanospheres for drug storage, targeting, and imaging: a multifunctional nanocarrier system for cancer diagnosis and treatment. 2010 , 4, 5398-404	222
1896	RGD-conjugated dendrimer-modified gold nanorods for in vivo tumor targeting and photothermal therapy. 2010 , 7, 94-104	270
1895	Quantum Dots and Their Multimodal Applications: A Review. 2010 , 3, 2260-2345	752
1894	Inorganic nanomaterials for tumor angiogenesis imaging. 2010 , 37 Suppl 1, S147-63	38
1893	Surface-enhanced Raman scattering: a new optical probe in molecular biophysics and biomedicine. 2010 , 125, 319-327	50
1892	DNA-WT1 protein interaction studied by surface-enhanced Raman spectroscopy. 2010 , 396, 1415-21	6
1891	SERS nanosensors that report pH of endocytic compartments during Fc β I transit. 2010 , 398, 2019-29	24
1890	Surface modification of magnetic nanoparticles using asparagines-serine polypeptide designed to control interactions with cell surfaces. 2010 , 31, 4952-7	34
1889	Development of biocompatible SERS nanotag with increased stability by chemisorption of reporter molecule for in vivo cancer detection. 2010 , 26, 398-403	102

1888	A versatile SERS-based immunoassay for immunoglobulin detection using antigen-coated gold nanoparticles and malachite green-conjugated protein A/G. 2010 , 26, 1009-15	71
1887	Novel optical nanosensors for probing and imaging live cells. 2010 , 6, 214-26	234
1886	Targeted Nanodelivery of Drugs and Diagnostics. 2010 , 5, 143-159	241
1885	Surface-enhanced Raman scattering on dual-layer metallic grating structures. 2010 , 55, 2643-2648	8
1884	Nanotechnology in head and neck cancer: the race is on. 2010 , 12, 121-8	60
1883	Enhanced Specificity of Multiplex Polymerase Chain Reaction via CdTe Quantum Dots. 2011 , 6, 51	22
1882	Toxicity and cellular uptake of gold nanoparticles: what we have learned so far?. 2010 , 12, 2313-2333	1109
1881	AuNP-DG: deoxyglucose-labeled gold nanoparticles as X-ray computed tomography contrast agents for cancer imaging. 2010 , 12, 463-7	70
1880	Bioconjugation and characterisation of gold colloid-labelled proteins. 2010 , 356, 60-9	110
1879	Size-dependent tissue kinetics of PEG-coated gold nanoparticles. 2010 , 245, 116-23	198
1878	Polymer- and colloid-mediated bioassays, sensors and diagnostics. 2010 , 28, 485-94	18
1877	Clinical application of FTIR imaging: new reasons for hope. 2010 , 28, 495-500	58
1876	Imaging metabolic syndrome. 2010 , 2, 196-210	7
1875	Triplex Au@Ag@Core@Shell Nanoparticles as a Novel Raman Label. 2010 , 20, 969-975	80
1874	Gold Nanocages: A Novel Class of Multifunctional Nanomaterials for Theranostic Applications. 2010 , 20, 3684-3694	189
1873	Cooperative nanoparticles for tumor detection and photothermally triggered drug delivery. 2010 , 22, 880-5	208
1872	Antitags: nanostructured tools for developing SERS-based ELISA analogs. 2010 , 22, 4954-8	41
1871	SERS Microscopy: Nanoparticle Probes and Biomedical Applications. 2010 , 263-283	4

1870	1-P and 2-P Excited SERS as Intracellular Probe. 2010 , 285-304	
1869	Size-tunable synthesis of monodisperse water-soluble gold nanoparticles with high X-ray attenuation. 2010 , 16, 1459-63	21
1868	Goldnanopartikel in Biologie und Medizin. 2010 , 122, 3352-3366	132
1867	Gold nanoparticles for biology and medicine. 2010 , 49, 3280-94	1878
1866	The SERS response of semioordered Ag nanorod arrays fabricated by template oblique angle deposition. 2010 , 41, 1112-1118	25
1865	Multifunctional magnetoplasmonic nanoparticle assemblies for cancer therapy and diagnostics (theranostics). 2010 , 31, 228-36	76
1864	Enhanced in vivo Magnetic Resonance Imaging of Tumors by PEGylated Iron-Oxide-Gold Core-Shell Nanoparticles with Prolonged Blood Circulation Properties. 2010 , 31, 1521-8	75
1863	Gold nanoparticles: Optical properties and implementations in cancer diagnosis and photothermal therapy. 2010 , 1, 13-28	1217
1862	Sustained release of ATP encapsulated in chitosan oligosaccharide nanoparticles. 2010 , 392, 164-9	28
1861	PET/NIRF/MRI triple functional iron oxide nanoparticles. 2010 , 31, 3016-22	410
1860	Single-pot synthesis: Plant mediated gold nanoparticles catalyzed reduction of methylene blue in presence of stannous chloride. 2010 , 367, 102-107	49
1859	Nanostructures Enabled by On-Wire Lithography (OWL). 2010 , 486, 89-98	33
1858	Nanotechnology tools in pharmaceutical R&D. 2010 , 12, 24-30	33
1857	Engineering nanocomposite materials for cancer therapy. 2010 , 6, 2336-57	205
1856	Nanoimaging and neurological surgery. 2010 , 2, 601-17	1
1855	Multifunctional silver-embedded magnetic nanoparticles as SERS nanoprobess and their applications. 2010 , 6, 119-25	161
1854	Bioinspired nanocorals with decoupled cellular targeting and sensing functionality. 2010 , 6, 503-7	111
1853	Self-organized hexagonal-nanopore SERS array. 2010 , 6, 1741-4	114

1852	Shell-isolated nanoparticle-enhanced Raman spectroscopy. 2010 , 464, 392-5	2595
1851	Trends in biotech literature 2009. <i>Nature Biotechnology</i> , 2010 , 28, 887	44.5 3
1850	Design considerations for tumour-targeted nanoparticles. 2010 , 5, 42-7	633
1849	Bioorthogonal chemistry amplifies nanoparticle binding and enhances the sensitivity of cell detection. 2010 , 5, 660-5	288
1848	Delivery of therapeutic radioisotopes using nanoparticle platforms: potential benefit in systemic radiation therapy. 2010 , 3, 159-70	37
1847	Imaging with Raman spectroscopy. 2010 , 11, 654-61	84
1846	. 2010 ,	43
1845	Gadolinium-labeled dendronized gold nanoparticles as new targeted MRI contrast agent. 2010 ,	
1844	Cancer tissue screening using surface enhanced Raman scattering. 2010 ,	1
1843	A straightforward route to the synthesis of a surface-enhanced Raman scattering probe for targeting transferrin receptor-overexpressed cells. 2010 , 21, 345101	21
1842	GOLD NANOPARTICLES IN CANCER IMAGING AND THERAPEUTICS. 2010 , 01, 289-307	14
1841	Optimally designed nanolayered metal-dielectric particles as probes for massively multiplexed and ultrasensitive molecular assays. 2010 , 107, 13620-5	28
1840	System control-mediated drug delivery towards complex systems via nanodiamond carriers. 2010 , 1, 69-81	6
1839	Gold Nanoshells in Biomedical Applications. 2010 ,	10
1838	Self-organized ion-beam synthesis of nanowires with broadband plasmonic functionality. 2010 , 81,	49
1837	Detoxification of gold nanorods by conjugation with thiolated poly(ethylene glycol) and their assessment as SERS-active carriers of Raman tags. 2010 , 21, 235601	73
1836	Multifunctional vectors system for cancer therapy using single-walled carbon nanotubes and antisense oligonucleotide-modified gold nanoparticles composite materials. 2010 ,	
1835	Polymeric/inorganic nanocomposites: fabrication and applications in multiple bioimaging. 2010 , 638-e697	1

1834	Chapter 4:Raman Microscopy: Complement or Competitor?. 2010 , 105-143	14
1833	NOVEL METHOD FOR CANCER CELL APOPTOSIS BY LOCALIZED UV LIGHT WITH GOLD NANOSTRUCTURES: A THEORETICAL INVESTIGATION. 2010 , 05, 325-332	4
1832	. 2010 ,	2
1831	X-ray fluorescence computed tomography (XFCT) imaging of gold nanoparticle-loaded objects using 110 kVp x-rays. 2010 , 55, 647-62	127
1830	GOLD NANOROD PHOTOTHERMAL THERAPY IN A GENETICALLY ENGINEERED MOUSE MODEL OF SOFT TISSUE SARCOMA. 2010 , 01, 277-287	19
1829	Colorimetric immunoassay for detection of tumor markers. 2010 , 11, 5077-94	41
1828	Introduction to metallic nanoparticles. 2010 , 2, 282-9	518
1827	Raman spectroscopy and related techniques in biomedicine. 2010 , 10, 1871-89	119
1826	Surface enhanced Raman scattering optimization of gold nanocylinder arrays: Influence of the localized surface plasmon resonance and excitation wavelength. 2010 , 97, 023113	81
1825	In vivo Molecular Imaging of Plant Tissues Using a Novel Carbon Encapsulated SERS Tags. 2010 ,	
1824	Gold nanotags for combined multi-colored Raman spectroscopy and x-ray computed tomography. 2010 , 21, 035101	53
1823	Preparation of quantum dot bioconjugates and their applications in bio-imaging. 2010 , 11, 662-71	19
1822	In vitro and in vivo studies on laser-activated gold nanorods for applications in photothermal therapies. 2010 ,	
1821	Plasmon resonance gold nanoparticles for improving optical diagnostics and photothermal therapy of tumor. 2010 ,	1
1820	Nanoparticles for improved therapeutics and imaging in cancer therapy. 2010 , 4, 171-80	34
1819	Efficient mucosal delivery of optical contrast agents using imidazole-modified chitosan. 2010 , 15, 015003	16
1818	Size-dependent impairment of cognition in mice caused by the injection of gold nanoparticles. 2010 , 21, 485102	38
1817	Coomassie brilliant dyes as surface-enhanced Raman scattering probes for protein-ligand recognitions. <i>Analytical Chemistry</i> , 2010 , 82, 4102-6	7.8 46

1816	The protease-mediated nucleus shuttles of subnanometer gold quantum dots for real-time monitoring of apoptotic cell death. 2010 , 132, 8309-15		79
1815	CdSe-ZnS quantum dot Langmuir films employing thiophene thiol as a capping ligand. 2010 ,		
1814	Gold nanoparticles delivery in mammalian live cells: a critical review. 2010 , 1,		155
1813	Sensitive detection of nucleic acids with rolling circle amplification and surface-enhanced Raman scattering spectroscopy. <i>Analytical Chemistry</i> , 2010 , 82, 8991-7	7.8	102
1812	SERS detection of biomolecules using lithographed nanoparticles towards a reproducible SERS biosensor. 2010 , 21, 475501		91
1811	Porous Hollow Gold Nanoparticles for Cancer SERS Imaging. 2010 , 10, 137-148		17
1810	Single-order, subwavelength resonant nanograting as a uniformly hot substrate for surface-enhanced Raman spectroscopy. 2010 , 10, 1780-6		79
1809	Surface decoration of ZnO nanorod arrays by electrophoresis in the au colloidal solution prepared by laser ablation in water. 2010 , 26, 8925-32		78
1808	Nanoparticle assemblies for biological and chemical sensing. 2010 , 20, 24-35		181
1807	Intracellular uptake, transport, and processing of gold nanostructures. 2010 , 27, 299-311		152
1806	Rigorous surface enhanced Raman spectral characterization of large-area high-uniformity silver-coated tapered silica nanopillar arrays. 2010 , 21, 395701		62
1805	Fabrication and SERS performance of silver-nanoparticle-decorated Si/ZnO nanotrees in ordered arrays. 2010 , 2, 1824-8		180
1804	Hexagonally Patterned Silver Nanoparticles Electrodeposited on an Aluminum Plate for Surface-Enhanced Raman Scattering. 2010 , 114, 7258-7262		22
1803	Applying gold nanoparticles as tumor-vascular disrupting agents during brachytherapy: estimation of endothelial dose enhancement. 2010 , 55, 6533-48		55
1802	Surface-enhanced Raman scattering hybrid nanoprobe multiplexing and imaging in biological systems. 2010 , 4, 3259-69		125
1801	Precise Control of the Assembly of Dye-Coded Oligonucleotide Silver Nanoparticle Conjugates with Single Base Mismatch Discrimination Using Surface Enhanced Resonance Raman Scattering 2010 , 114, 7384-7389		16
1800	Hand-held spectroscopic device for in vivo and intraoperative tumor detection: contrast enhancement, detection sensitivity, and tissue penetration. <i>Analytical Chemistry</i> , 2010 , 82, 9058-65	7.8	195
1799	Prospects of deep Raman spectroscopy for noninvasive detection of conjugated surface enhanced resonance Raman scattering nanoparticles buried within 25 mm of mammalian tissue. <i>Analytical Chemistry</i> , 2010 , 82, 3969-73	7.8	112

1798	Transcutaneous glucose sensing by surface-enhanced spatially offset Raman spectroscopy in a rat model. <i>Analytical Chemistry</i> , 2010 , 82, 8382-5	7.8	152
1797	Identification of Tumor Cells through Spectroscopic Profiling of the Cellular Surface Chemistry. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 1595-1598	6.4	37
1796	Size-controlled growth of colloidal gold nanoplates and their high-purity acquisition. 2010 , 21, 105602		32
1795	Protein-assisted self-assembly of multifunctional nanoparticles. 2010 , 107, 5827-32		86
1794	One-phase synthesis of water-soluble gold nanoparticles with control over size and surface functionalities. 2010 , 26, 7604-13		139
1793	High-resolution spectral analysis of individual SERS-active nanoparticles in flow. 2010 , 132, 6081-90		53
1792	Silver Nanosphere SERS Probes for Sensitive Identification of Pathogens. 2010 , 114, 16122-16128		119
1791	Dynamic Imaging Analysis of SERS-Active Nanoparticle Clusters in Suspension. 2010 , 114, 18115-18120		28
1790	A General Strategy to Prepare TiO ₂ -core Gold-shell Nanoparticles as SERS-tags. 2010 , 114, 7263-7268		29
1789	Functional nanoprobe for ultrasensitive detection of biomolecules. 2010 , 39, 4234-43		492
1788	Cell surface-based differentiation of cell types and cancer states using a gold nanoparticle-GFP based sensing array. 2010 , 1, 134		95
1787	Optimized nanospherical layered alternating metal-dielectric probes for optical sensing. 2010 , 18, 23302-13		21
1786	Optimized optical trapping of gold nanoparticles. 2010 , 18, 551-9		148
1785	Inorganic nanoparticle-based contrast agents for molecular imaging. 2010 , 16, 561-73		191
1784	Detection of chronic lymphocytic leukemia cell surface markers using surface enhanced Raman scattering gold nanoparticles. 2010 , 292, 91-7		65
1783	Conjugation of peptides to the passivation shell of gold nanoparticles for targeting of cell-surface receptors. 2010 , 4, 6617-28		84
1782	Directed evolution of gold nanoparticle delivery to cells. 2010 , 46, 392-4		105
1781	Development of chitosan-coated gold nanoflowers as SERS-active probes. 2010 , 21, 375101		42

1780	Plasmons in nanoscale and atomic-scale systems. 2010 , 11, 054506		42
1779	Generation and detection of plasmonic nanobubbles in zebrafish. 2010 , 21, 225102		19
1778	Enabling individualized therapy through nanotechnology. 2010 , 62, 57-89		151
1777	Assessing iron oxide nanoparticle toxicity in vitro: current status and future prospects. 2010 , 5, 1261-75		109
1776	Fabrication of Cluster/Shell Fe ₃ O ₄ /Au Nanoparticles and Application in Protein Detection via a SERS Method. 2010 , 114, 19607-19613		113
1775	Design and characterization of HER-2-targeted gold nanoparticles for enhanced X-radiation treatment of locally advanced breast cancer. 2010 , 7, 2194-206		92
1774	Tri-functionalization of mesoporous silica nanoparticles for comprehensive cancer theranostics—the trio of imaging, targeting and therapy. 2010 , 20, 6149		180
1773	Applications of nanotechnology to imaging and therapy of brain tumors. 2010 , 20, 283-92		15
1772	Facile synthesis of Raman active phospholipid gold nanoparticles. 2010 , 21, 2178-82		43
1771	Nanotechnology applications in surgical oncology. 2010 , 61, 359-73		133
1770	In vitro self-assembly of gold nanoparticle-coated poly(3-hydroxybutyrate) granules exhibiting plasmon-induced thermo-optical enhancements. 2010 , 2, 1804-10		10
1769	Coupling surface-enhanced resonance Raman scattering and electronic tongue as characterization tools to investigate biological membrane mimetic systems. <i>Analytical Chemistry</i> , 2010 , 82, 3537-46	7.8	24
1768	Direct measurements of protein-stabilized gold nanoparticle interactions. 2010 , 26, 14409-13		30
1767	Qualitative analysis and the answer box: a perspective on portable Raman spectroscopy. <i>Analytical Chemistry</i> , 2010 , 82, 3419-25	7.8	58
1766	Nanotechnology for early cancer detection. 2010 , 10, 428-55		212
1765	A structural mass spectrometry strategy for the relative quantitation of ligands on mixed monolayer-protected gold nanoparticles. <i>Analytical Chemistry</i> , 2010 , 82, 9268-74	7.8	34
1764	Multifunctionalized gold nanoparticles with peptides targeted to gastrin-releasing peptide receptor of a tumor cell line. 2010 , 21, 1070-8		60
1763	Turning up the lights—fabrication of brighter SERRS nanotags. 2010 , 46, 5247-9		18

1762	Au nanochain-built 3D netlike porous films based on laser ablation in water and electrophoretic deposition. 2010 , 46, 7223-5	49
1761	Mercury(ii) detection by SERS based on a single gold microshell. 2010 , 46, 5587-9	102
1760	Combinatorial synthesis of a triphenylmethine library and their application in the development of surface enhanced Raman scattering (SERS) probes. 2010 , 46, 722-4	27
1759	Near-infrared absorbing and luminescent gold speckled silica nanoparticles for photothermal therapy. 2010 , 20, 5182	27
1758	Inorganic nanoparticles for targeted drug delivery. 2010 , 204-235	15
1757	Anti-fouling magnetic nanoparticles for siRNA delivery. 2010 , 20, 255-265	118
1756	Surface-enhanced Raman scattering biomedical applications of plasmonic colloidal particles. 2010 , 7 Suppl 4, S435-50	157
1755	Au@organosilica multifunctional nanoparticles for the multimodal imaging. 2011 , 2, 1463	69
1754	Antibody-functionalized SERS tags with improved sensitivity. 2011 , 47, 8784-6	30
1753	Glyco-nanomaterials: translating insights from the "sugar-code" to biomedical applications. 2011 , 18, 2060-78	75
1752	Closely adjacent gold nanoparticles linked by chemisorption of neutral rhodamine 123 molecules providing enormous SERS intensity. 2011 , 13, 12454-62	32
1751	Investigation of the stability of labelled nanoparticles for SE(R)RS measurements in cells. 2011 , 47, 4099-101	23
1750	Multiplex cancer cell detection by SERS nanotags with cyanine and triphenylmethine Raman reporters. 2011 , 47, 3514-6	99
1749	Biofunctionalization of nanoparticles for cytosensing and cell surface carbohydrate assay. 2011 , 21, 18154	14
1748	Bio-imaging, detection and analysis by using nanostructures as SERS substrates. 2011 , 21, 5190-5202	100
1747	Peptide-tailored assembling of Au nanorods. 2011 , 47, 5482-4	13
1746	SERS-Active Nanoparticles for Sensitive and Selective Detection of Cadmium Ion (Cd ²⁺). 2011 , 23, 4756-4764	150
1745	Flower-shaped gold nanoparticles: synthesis, characterization and their application as SERS-active tags inside living cells. 2011 , 22, 055702	82

1744	Sombrero-shaped plasmonic nanoparticles with molecular-level sensitivity and multifunctionality. 2011 , 5, 6449-57		30
1743	Flow-based autocorrelation studies for the detection and investigation of single-particle surface-enhanced resonance Raman spectroscopic events. <i>Analytical Chemistry</i> , 2011 , 83, 1418-24	7.8	10
1742	Probing intracellular biomarkers and mediators of cell activation using nanosensors and bioorthogonal chemistry. 2011 , 5, 3204-13		60
1741	Minimally invasive surface-enhanced Raman scattering detection with depth profiles based on a surface-enhanced Raman scattering-active acupuncture needle. <i>Analytical Chemistry</i> , 2011 , 83, 6191-5	7.8	34
1740	Metal-molecule Schottky junction effects in surface enhanced Raman scattering. 2011 , 115, 318-28		14
1739	Immuno-surface-enhanced coherent anti-stokes Raman scattering microscopy: immunohistochemistry with target-specific metallic nanoprobe and nonlinear Raman microscopy. <i>Analytical Chemistry</i> , 2011 , 83, 7081-5	7.8	34
1738	Enzyme-mimic activity of ferric nano-core residing in ferritin and its biosensing applications. <i>Analytical Chemistry</i> , 2011 , 83, 8611-6	7.8	52
1737	Anomalous Wetting Layer at the Au(111) Surface. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 2582-2586		43
1736	Au-Coated Polystyrene Nanoparticles with High-Aspect-Ratio Nanocorrugations via Surface-Carboxylation-Shielded Anisotropic Etching for Significant SERS Signal Enhancement. 2011 , 115, 16258-16267		23
1735	Uptake of gold nanoparticles in healthy and tumor cells visualized by nonlinear optical microscopy. 2011 , 115, 5008-16		29
1734	Reporter-Embedded TiO ₂ Core/Mixed Metal Shell Nanoparticles with Enormous Average Surface-Enhanced Raman Scattering Enhancement Factors. 2011 , 115, 3318-3326		6
1733	Using engineered single-chain antibodies to correlate molecular binding properties and nanoparticle adhesion dynamics. 2011 , 27, 13701-12		8
1732	Preparation of silica-encapsulated hollow gold nanosphere tags using layer-by-layer method for multiplex surface-enhanced raman scattering detection. 2011 , 27, 10228-33		44
1731	Selective targeting of antibody conjugated multifunctional nanoclusters (nanoroses) to epidermal growth factor receptors in cancer cells. 2011 , 27, 7681-90		36
1730	Multidentate-protected colloidal gold nanocrystals: pH control of cooperative precipitation and surface layer shedding. 2011 , 133, 7268-71		31
1729	Nanotechnology Environmental, Health, and Safety Issues. 2011 , 159-220		3
1728	Implications on clinical scenario of gold nanoparticle radiosensitization in regards to photon energy, nanoparticle size, concentration and location. 2011 , 56, 4631-47		189
1727	Nanoparticle-functionalized polymer platform for controlling metastatic cancer cell adhesion, shape, and motility. 2011 , 5, 5444-56		30

1726	Rational design and SERS properties of side-by-side, end-to-end and end-to-side assemblies of Au nanorods. 2011 , 21, 14448	58
1725	Targeted gold nanoparticles enable molecular CT imaging of cancer: an in vivo study. 2011 , 6, 2859-64	169
1724	Encoding peptide sequences with surface-enhanced Raman spectroscopic nanoparticles. 2011 , 47, 2306-8	40
1723	Conjugated polyelectrolyte-cisplatin complex nanoparticles for simultaneous in vivo imaging and drug tracking. 2011 , 3, 1997-2002	92
1722	Nanoparticle PEGylation for imaging and therapy. 2011 , 6, 715-28	1433
1721	Monodispersed and size-controlled multibranching gold nanoparticles with nanoscale tuning of surface morphology. 2011 , 3, 2227-32	85
1720	Localized and propagating surface plasmon co-enhanced Raman spectroscopy based on evanescent field excitation. 2011 , 47, 3784-6	68
1719	Surface-enhanced Raman scattering-active nanostructures and strategies for bioassays. 2011 , 6, 1463-80	108
1718	Luminescent gold nanoparticles with pH-dependent membrane adsorption. 2011 , 133, 11014-7	166
1717	Solution-phase, dual LSPR-SERS plasmonic sensors of high sensitivity and stability based on chitosan-coated anisotropic silver nanoparticles. 2011 , 21, 3625	118
1716	Amphiphilic polymer-coated hybrid nanoparticles as CT/MRI dual contrast agents. 2011 , 22, 155101	108
1715	Functionalizing metal nanostructured film with graphene oxide for ultrasensitive detection of aromatic molecules by surface-enhanced Raman spectroscopy. 2011 , 3, 2944-52	144
1714	Sensitive and versatile detection of the fouling process and fouling propensity of proteins on polyvinylidene fluoride membranes via surface-enhanced Raman spectroscopy. <i>Analytical Chemistry</i> , 2011 , 83, 1709-16	7.8 44
1713	In vivo, transcutaneous glucose sensing using surface-enhanced spatially offset Raman spectroscopy: multiple rats, improved hypoglycemic accuracy, low incident power, and continuous monitoring for greater than 17 days. <i>Analytical Chemistry</i> , 2011 , 83, 9146-52	7.8 138
1712	Recent progress in SERS biosensing. 2011 , 13, 11551-67	488
1711	Gold nanostructures as a platform for combinational therapy in future cancer therapeutics. 2011 , 3, 1081-110	108
1710	Bioconjugation of luminescent silicon quantum dots for selective uptake by cancer cells. 2011 , 22, 1081-8	87
1709	Surface enhanced spatially offset Raman spectroscopic (SESORS) imaging II the next dimension. 2011 , 2, 776	141

1708	Novel and simple route to fabricate 2D ordered gold nanobowl arrays based on 3D colloidal crystals. 2011 , 27, 13308-13		26
1707	Development of Au/Ag substrate with alternating nanosphere array for SERS-based biosensing. 2011 ,		
1706	Gold nanoparticle-aided brachytherapy with vascular dose painting: estimation of dose enhancement to the tumor endothelial cell nucleus. 2012 , 39, 392-8		42
1705	SERS biodetection using gold-silica nanoshells and nitrocellulose membranes. <i>Analytical Chemistry</i> , 2011 , 83, 4053-60	7.8	47
1704	SERS labels for quantitative assays: application to the quantification of gold nanoparticles uptaken by macrophage cells. 2011 , 3, 849		25
1703	Shell-isolated nanoparticle-enhanced Raman spectroscopy: expanding the versatility of surface-enhanced Raman scattering. 2011 , 4, 129-50		159
1702	Targeted delivery of cisplatin to lung cancer using ScFvEGFR-heparin-cisplatin nanoparticles. 2011 , 5, 9480-93		115
1701	Design and development of quantum dots and other nanoparticles based cellular imaging probe. 2011 , 13, 385-96		67
1700	Competitive protection of aptamer-functionalized gold nanoparticles by controlling the DNA assembly. <i>Analytical Chemistry</i> , 2011 , 83, 6464-7	7.8	24
1699	Photonic Nanoparticles for Cellular and Tissular Labeling. 2011 , 59-104		1
1698	Plasmonic gold nanocrosses with multidirectional excitation and strong photothermal effect. 2011 , 133, 8506-9		137
1697	Detection of circulating tumor cells in human peripheral blood using surface-enhanced Raman scattering nanoparticles. 2011 , 71, 1526-32		292
1696	Noninvasive MRI-SERS imaging in living mice using an innately bimodal nanomaterial. 2011 , 5, 1056-66		92
1695	Monomer adsorption of indocyanine green to gold nanoparticles. 2011 , 3, 4247-53		6
1694	Nanotechnology Research Directions for Societal Needs in 2020. 2011 ,		151
1693	Microfluidics. 2011 ,		31
1692	Gold nanoparticles in cancer therapy. 2011 , 32, 983-90		191
1691	NanoBiosensing. 2011 ,		26

1690	Highly sensitive SERS detection of As ³⁺ ions in aqueous media using glutathione functionalized silver nanoparticles. 2011 , 3, 3936-41	193
1689	Cytosensing and Cell Surface Carbohydrate Assay by Assembly of Nanoparticles. 2011 , 485-534	
1688	Photonic crystal fiber for efficient Raman scattering of CdTe quantum dots in aqueous solution. 2011 , 5, 3823-30	37
1687	Surface-enhanced Raman scattering (SERS) cytometry. 2011 , 102, 515-32	28
1686	Rationally designed SERS active silica coated silver nanoparticles. 2011 , 47, 4415-7	37
1685	Cellular uptake and nanoscale localization of gold nanoparticles in cancer using label-free confocal Raman microscopy. 2011 , 8, 176-84	64
1684	Localized surface plasmon resonance: nanostructures, bioassays and biosensing--a review. 2011 , 706, 8-24	721
1683	Pancreatic Cancer Stem Cells as New Targets for Diagnostics and Therapy. 2011 , 116-134	1
1682	Raman spectroscopy for scavenging activity assay using nanoshell precursor nanocomposites as SERSprobes. 2011 , 3, 274-279	23
1681	Strategies for the intracellular delivery of nanoparticles. 2011 , 40, 233-45	575
1680	Controllable synthesis of bifunctional NaYF ₄ :Yb ³⁺ /Ho ³⁺ @SiO ₂ /Au nanoparticles with upconversion luminescence and high X-ray attenuation. 2011 , 509, 9144-9149	16
1679	Biosensors in microfluidic chips. 2011 , 304, 117-52	16
1678	A highly sensitive biological detection substrate based on TiO ₂ nanowires supporting gold nanoparticles. 2011 ,	1
1677	Micro-CT enables microlocalisation and quantification of Her2-targeted gold nanoparticles within tumour regions. 2011 , 84, 526-33	190
1676	Functionalized arrays of Raman-enhancing nanoparticles for capture and culture-free analysis of bacteria in human blood. 2011 , 2, 538	201
1675	Nanoparticle size is a critical physicochemical determinant of the human blood plasma corona: a comprehensive quantitative proteomic analysis. 2011 , 5, 7155-67	650
1674	Phospholipid membrane encapsulation of nanoparticles for surface-enhanced Raman scattering. 2011 , 27, 7024-33	43
1673	Facile synthesis of gold nanoflowers with high surface-enhanced Raman scattering activity. 2011 , 22, 385601	48

1672	From cleanroom to desktop: emerging micro-nanofabrication technology for biomedical applications. 2011 , 39, 600-20	55
1671	In Vivo Applications of Inorganic Nanoparticles. 2011 , 185-220	5
1670	Nano-sensitizers for multi-modality optical diagnostic imaging and therapy of cancer. 2011 ,	1
1669	Nanoparticles and inflammation. 2011 , 11, 1300-12	30
1668	Immunoassay for LMP1 in nasopharyngeal tissue based on surface-enhanced Raman scattering. 2012 , 7, 73-82	34
1667	Advances in bio-optical imaging for the diagnosis of early oral cancer. 2011 , 3, 354-78	32
1666	A Highly Sensitive Biological Detection Substrate based on TiO ₂ Nanowires Supporting Gold Nanoparticles. 2011 ,	
1665	Gold nanoparticles for tumour detection and treatment. 2011 ,	1
1664	Radiolabelled Nanoparticles for Diagnosis and Treatment of Cancer. 2011 ,	1
1663	Gold nanoparticle-based surface-enhanced Raman scattering for noninvasive molecular probing of embryonic stem cell differentiation. 2011 , 6, e22802	62
1662	Multifunctional Gold Nanoparticles for Cancer Therapy. 2011 , 1-24	
1661	Multifunctional vectors system for cancer therapy using single-walled carbon nanotubes and antisense oligonucleotide-modified gold nanoparticles composite materials. 2011 , 8, 664	1
1660	Gold nanoparticles for tumour detection and treatment. 2011 ,	
1659	Highly uniform and reproducible surface-enhanced Raman scattering from DNA-tailorable nanoparticles with 1-nm interior gap. 2011 , 6, 452-60	877
1658	Five more years of Nature Biotechnology research. <i>Nature Biotechnology</i> , 2011 , 29, 221-7	44.5 7
1657	Applications of Raman-based techniques to on-site and in-vivo analysis. 2011 , 30, 1462-1476	36
1656	Inorganic nanoparticles for cancer imaging and therapy. 2011 , 155, 344-57	408
1655	Microwave synthesis of gold nanoparticles: Effect of applied microwave power and solution pH. 2011 , 131, 331-335	45

1654	Comparison of quantum-dots- and fluorescein-isothiocyanate-based technology for detecting prostate-specific antigen expression in human prostate cancer. 2011 , 5, 47	12
1653	A radio-frequency coupling network for heating of citrate-coated gold nanoparticles for cancer therapy: design and analysis. 2011 , 58, 2002-12	66
1652	Selective photothermal efficiency of citrate capped gold nanoparticles for destruction of cancer cells. 2011 , 317, 2052-8	34
1651	Novel nanotechnology approaches to diagnosis and therapy of ovarian cancer. 2011 , 120, 393-403	47
1650	Preferential adsorption of fetal bovine serum on bare and aromatic thiol-functionalized gold surfaces in cell culture media. 2011 , 363, 105-13	20
1649	Synthesis and characterization of Raman active gold nanoparticles. 2011 , 386, 92-97	4
1648	Ligand exchange based water-soluble, surface-enhanced Raman scattering-tagged gold nanorod probes with improved stability. 2011 , 513, 241-245	7
1647	Poly(methylene blue) doped silica nanocomposites with crosslinked cage structure: Electropolymerization, characterization and catalytic activity for reduction of dissolved oxygen. 2011 , 56, 10055-10063	24
1646	Arthritis in space and time--to boldly go!. 2011 , 585, 3640-8	2
1645	Size effects on silver nanoparticles' properties. 2011 , 22, 275708	14
1644	Experimental considerations on the cytotoxicity of nanoparticles. 2011 , 6, 929-41	212
1643	Generalised Einstein relation for hot Brownian motion. 2011 , 96, 60009	26
1642	Complexity and path dependence in biotechnology innovation systems. 2011 , 20, 1795-1826	31
1641	Review on gold nanoparticles and their applications. 2011 , 3, 193-205	118
1640	Controlling the synthesis and assembly of silver nanostructures for plasmonic applications. 2011 , 111, 3669-712	2056
1639	Synthesis of Monodisperse Au, Ag, and AuAg Alloy Nanoparticles with Tunable Size and Surface Plasmon Resonance Frequency. 2011 , 23, 4098-4101	172
1638	Single-walled carbon nanotubes in biomedical imaging. 2011 , 21, 586-598	128
1637	Surface enhanced optical spectroscopies for bioanalysis. 2011 , 136, 3831-53	104

1636	Functionalization of gold surfaces: recent developments and applications. 2011 , 46, 7643-7648	19
1635	Control of plasmon resonance of gold nanoparticles via excimer laser irradiation. 2011 , 102, 153-160	13
1634	Nanoparticles for the development of improved (bio)sensing systems. 2011 , 399, 1577-90	80
1633	Raman detection of localized transferrin-coated gold nanoparticles inside a single cell. 2011 , 401, 1631-9	26
1632	Sensitive biosensing strategy based on functional nanomaterials. 2011 , 54, 1202-1217	35
1631	Advances of multiplex and high throughput biomolecular detection technologies based on encoding microparticles. 2011 , 54, 1185	7
1630	Study on gastric cancer blood plasma based on surface-enhanced Raman spectroscopy combined with multivariate analysis. 2011 , 54, 828-34	63
1629	Low-Cost Fabrication of Pt Thin Films with Controlled Nanostructures and Their Effects on SERS. 2011 , 6, 715-723	6
1628	Current status of multiple antigen-presenting peptide vaccine systems: Application of organic and inorganic nanoparticles. 2011 , 5, 48	54
1627	System Integration - A Major Step toward Lab on a Chip. 2011 , 5, 6	64
1626	Building nanostructures using RAFT polymerization. 2011 , 49, 551-595	278
1625	Nanoprobe-based immobilized metal affinity chromatography for sensitive and complementary enrichment of multiply phosphorylated peptides. 2011 , 11, 2639-53	18
1624	Engineering Nanocarriers for siRNA Delivery. 2011 , 7, 841-56	92
1623	Affibody-functionalized gold-silica nanoparticles for Raman molecular imaging of the epidermal growth factor receptor. 2011 , 7, 625-33	107
1622	Preclinical evaluation of Raman nanoparticle biodistribution for their potential use in clinical endoscopy imaging. 2011 , 7, 2232-40	67
1621	Graphite-coated magnetic nanoparticles as multimodal imaging probes and cooperative therapeutic agents for tumor cells. 2011 , 7, 1647-52	52
1620	Molecular imaging with SERS-active nanoparticles. 2011 , 7, 3261-9	71
1619	Fast and cost-effective purification of gold nanoparticles in the 20-250 nm size range by continuous density gradient centrifugation. 2011 , 7, 2443-8	12

1618	Raman-active two-tiered Ag nanoparticles with a concentric cavity. 2011 , 7, 3276-80	10
1617	Quantum confinement effects on the surface enhanced Raman spectra of hybrid systems molecule-TiO ₂ nanoparticles. 2011 , 111, 1659-1670	27
1616	Surface-enhanced Raman spectroscopy in living plant using triplex Au@Ag@C core-shell nanoparticles. 2011 , 42, 879-884	25
1615	Application of surface-enhanced Raman scattering in cell analysis. 2011 , 42, 1248-1254	34
1614	Surface-enhanced Raman scattering and DFT calculations studies of 3,3'-diethylthiatri-carbocyanine iodide. 2011 , 42, 1722-1727	13
1613	Gold nanoparticles and quantum dots for bioimaging. 2011 , 74, 592-604	96
1612	Multifunctional Hybrid Polymer-Based Porous Materials. 2011 , 21, 1959-1969	22
1611	Precisely Designed Gold Nanoparticles by Surface Polymerization of Artificial Molecules as Building Blocks for Novel Materials. 2011 , 21, 3753-3759	12
1610	Enhancing the photothermal stability of plasmonic metal nanoplates by a core-shell architecture. 2011 , 23, 3420-5	215
1609	Current Status and Future Prospects for Nanoparticle-Based Technology in Human Medicine. 2011 , 781-813	1
1608	Nanoplatfoms for Raman Molecular Imaging in Biological Systems. 2011 , 197-216	2
1607	Surface-enhanced fluorescence from fluorophore-assembled monolayers by using Ag@SiO ₂ nanoparticles. 2011 , 12, 992-8	16
1606	Gold nanorods as new nanochromophores for photothermal therapies. 2011 , 4, 64-73	61
1605	Clinical SERS: are we there yet?. 2011 , 4, 667-84	52
1604	Ultrasensitive Near-Infrared Raman Reporters for SERS-Based In Vivo Cancer Detection. 2011 , 123, 6213-6216	12
1603	Facile Preparation of Multifunctional Upconversion Nanoprobes for Multimodal Imaging and Dual-Targeted Photothermal Therapy. 2011 , 123, 7523-7528	172
1602	Ultrasensitive near-infrared Raman reporters for SERS-based in vivo cancer detection. 2011 , 50, 6089-92	230
1601	Facile preparation of multifunctional upconversion nanoprobes for multimodal imaging and dual-targeted photothermal therapy. 2011 , 50, 7385-90	526

1600	Development of lipid targeting Raman probes for in vivo imaging of <i>Caenorhabditis elegans</i> . 2011 , 17, 5165-70	27
1599	Gastric cancer detection based on blood plasma surface-enhanced Raman spectroscopy excited by polarized laser light. 2011 , 26, 3167-74	153
1598	A review on the fabrication of substrates for surface enhanced Raman spectroscopy and their applications in analytical chemistry. 2011 , 693, 7-25	786
1597	Highly sensitive detection of clenbuterol using competitive surface-enhanced Raman scattering immunoassay. 2011 , 697, 61-6	85
1596	Fluorescence-surface enhanced Raman scattering co-functionalized gold nanorods as near-infrared probes for purely optical in vivo imaging. 2011 , 32, 1601-10	121
1595	In vivo distribution, pharmacokinetics, and toxicity of aqueous synthesized cadmium-containing quantum dots. 2011 , 32, 5855-62	157
1594	A simple method to fabricate silver colloid clusters for surface-enhanced Raman scattering. 2011 , 511, 121-125	14
1593	Experimental demonstration of the electromagnetic mechanism underlying surface enhanced Raman scattering using single nanoparticle spectroscopy. 2011 , 219, 167-179	8
1592	Surface enhanced Raman scattering spectroscopy of Ag nanoparticle aggregates directly photo-reduced on pathogenic bacterium (<i>Helicobacter pylori</i>). 2011 , 221, 181-186	10
1591	Silicon nanowires-based highly-efficient SERS-active platform for ultrasensitive DNA detection. 2011 , 6, 122-130	224
1590	WITHDRAWN: Inorganic nanoparticles for cancer imaging and therapy. 2011 ,	1
1589	Nanoparticles in oncology: the new theragnostic molecules. 2011 , 11, 669-86	31
1588	Development of Au/Ag Substrate with Alternating Nanosphere Array for SERS-based Biosensing. 2011 ,	
1587	Near Field Optical Properties of Individual Ag Nanowire Dimers Encapsulated by Dielectric Layers. 2011 , 393-395, 193-196	
1586	Scanning Electron Microscopy and Surface Enhanced Raman Spectroscopy Correlation Studies of Functionalized Composite Organic-Inorganic SERS Nanoparticles on Cancer Cells. 2011 , 1316, 1	
1585	Raman's "effect" on molecular imaging. 2011 , 52, 1839-44	70
1584	Clustering of optically trapped large diameter plasmonic gold nanoparticles by laser beam of hybrid-TEM ₁₁ mode. 2011 , 5, 053511	4
1583	Lung cancer targeted Raman active phospholipid gold nanoparticles for ultrasensitive and specific molecular imaging and detection. 2011 ,	1

1582	Spectrally resolving and scattering-compensated x-ray luminescence/fluorescence computed tomography. 2011 , 16, 066014	34
1581	X-ray phase computed tomography for nanoparticulated imaging probes and therapeutics: preliminary feasibility study. 2011 ,	1
1580	Picosecond nonlinear optical studies of gold nanoparticles synthesised using coriander leaves (<i>Coriandrum sativum</i>). 2011 , 58, 1024-1029	20
1579	Gold Nanoparticles: Promising Nanomaterials for the Diagnosis of Cancer and HIV/AIDS. 2011 , 2011, 1-17	50
1578	The feasibility of polychromatic cone-beam x-ray fluorescence computed tomography (XFCT) imaging of gold nanoparticle-loaded objects: a Monte Carlo study. 2011 , 56, 3719-30	62
1577	Research highlights. <i>Nature Biotechnology</i> , 2011 , 29, 410-410	44.5 1
1576	Assessment of the evolution of cancer treatment therapies. 2011 , 3, 3279-330	398
1575	In Vitro Cytotoxicity Assay on Gold Nanoparticles with Different Stabilizing Agents. 2012 , 2012, 1-9	82
1574	Fine Particles in Medicine and Pharmacy. 2012 ,	6
1573	Control of In Vivo Transport and Toxicity of Nanoparticles by Tea Melanin. 2012 , 2012, 1-11	4
1572	Intravital confocal Raman microscopy with multiplexed SERS contrast agents. 2012 ,	1
1571	Surface modification of bacterial magnetic nanoparticles using artificial polypeptides consisting of a repeated asparagine-serine dipeptide and a transmembrane peptide. 2012 , 1464, 1	
1570	Gold nanoshells for imaging and photothermal ablation of cancer. 2012 , 326-355	
1569	Nanobiophotonics for molecular imaging of cancer: Au- and Ag-based Epidermal Growth Factor receptor (EGFR) specific nanoprobe. 2012 ,	2
1568	BRANCHED METAL NANOPARTICLES: A REVIEW ON WET-CHEMICAL SYNTHESIS AND BIOMEDICAL APPLICATIONS. 2012 , 02, 1230002	8
1567	Optical sorting of gold nanoparticles based on the red-shift of plasmon resonance. 2012 ,	
1566	A nano-combinatorial approach to developing cancer diagnostics: nano-combinatorial diagnostics discovery. 2012 , 7, 937-40	3
1565	Intracellular multiplex detection and imaging of stable chemisorbed labels by SERS spectroscopy. 2012 ,	1

1564	Near infrared receptor-targeted nanoprobe for early diagnosis of cancers. 2012 , 19, 4767-85	23
1563	A photonic crystal cavity-optical fiber tip nanoparticle sensor for biomedical applications. 2012 , 100, 213702	23
1562	Fluorescence anisotropy of protein - Gold nanoclusters. 2012 ,	2
1561	Rapid immuno-SERS microscopy for tissue imaging with single-nanoparticle sensitivity. 2013 , 6, 785-92	12
1560	Noble metal nanoparticles applications in cancer. 2012 , 2012, 751075	304
1559	Live Cells as Dynamic Laboratories: Time Lapse Raman Spectral Microscopy of Nanoparticles with Both IgE Targeting and pH-Sensing Functions. 2012 , 2012, 390182	3
1558	Experimental demonstration of benchtop x-ray fluorescence computed tomography (XFCT) of gold nanoparticle-loaded objects using lead- and tin-filtered polychromatic cone-beams. 2012 , 57, N457-67	78
1557	Nanoparticle-mediated codelivery of myelin antigen and a tolerogenic small molecule suppresses experimental autoimmune encephalomyelitis. 2012 , 109, 11270-5	225
1556	Ultrasensitive system for the real-time detection of H ₂ O ₂ based on strong coupling in a bioplasmonic system. 2012 ,	3
1555	Filter-based method for background removal in high-sensitivity wide-field-surface-enhanced Raman scattering imaging in vivo. 2012 , 17, 076017	22
1554	Interaction of (-)-epigallocatechin gallate with lysozyme-conjugated silver nanoparticles. 2012 , 66, 744-9	4
1553	Raman Imaging Probes for Cancer Research. 2012 , 545-565	
1552	Distribution of phthalocyanines and Raman reporters in human cancerous and noncancerous breast tissue as studied by Raman imaging. 2012 , 11, 317-31	17
1551	- Sensitive Mesofluidic Immunosensor for Detection of Circulating Breast Cancer Cells onto Antibody-Coated Long Alkylsilane Self-Assembled Monolayers. 2012 , 400-413	
1550	Functionalisation, Characterization, and Application of Metal Nanoparticles for Bioanalysis. 2012 , 33-58	
1549	Theranostic Applications of Plasmonic Nanosystems. 2012 , 383-413	2
1548	Biological Applications of SERS Using Functional Nanoparticles. 2012 , 181-234	6
1547	Targeting Gold Nanoparticles for Cancer Diagnostics and Therapeutics. 2012 , 37-54	2

1546	Nanoparticle actuated hollow drug delivery vehicles. 2012 , 7, 145-64	73
1545	A silver nanoparticle based surface enhanced resonance Raman scattering (SERRS) probe for the ultrasensitive and selective detection of formaldehyde. 2012 , 4, 7358-61	27
1544	Peptide-guided surface-enhanced Raman scattering probes for localized cell composition analysis. 2012 , 78, 7805-8	17
1543	Nanooncology. 2012 , 271-341	
1542	Detection of biomarkers using recombinant antibodies coupled to nanostructured platforms. 2012 , 3,	44
1541	Gold nanoparticles: the importance of physiological principles to devise strategies for targeted drug delivery. 2012 , 8, 804-14	92
1540	Hair fiber as a nanoreactor in controlled synthesis of fluorescent gold nanoparticles. 2012 , 12, 6212-7	35
1539	Glucan Particles as Carriers of Nanoparticles for Macrophage-Targeted Delivery. 2012 , 57-79	12
1538	The direct writing and focusing of nanoparticles generated by an electrical discharge. 2012 , 14, 1	2
1537	Single cell analysis using surface enhanced Raman scattering (SERS) tags. 2012 , 57, 272-9	64
1536	Role of interfering optical fields in the trapping and melting of gold nanorods and related clusters. 2012 , 20, 10963-70	12
1535	AgI modified silicon nanowires: synthesis, characterization and properties of ionic conductivity and surface-enhanced Raman scattering. 2012 , 14, 601-604	8
1534	Porous gold nanodisks with multiple internal hot spots. 2012 , 14, 9131-6	41
1533	Multiplexed SERS detection of DNA targets in a sandwich-hybridization assay using SERS-encoded core-shell nanospheres. 2012 , 22, 12100	56
1532	Polymer Microbead-Based Surface Enhanced Raman Scattering Immunoassays. 2012 , 116, 17174-17181	16
1531	Anchoring molecular chromophores to colloidal gold nanocrystals: surface-enhanced Raman evidence for strong electronic coupling and irreversible structural locking. 2012 , 134, 2000-3	44
1530	Interface synthesis of gold mesocrystals with highly roughened surfaces for surface-enhanced Raman spectroscopy. 2012 , 22, 1998-2006	75
1529	Three-dimensional super-localization and tracking of single gold nanoparticles in cells. <i>Analytical Chemistry</i> , 2012 , 84, 4111-7	7.8 49

1528	Angular-Resolved Polarized Surface Enhanced Raman Spectroscopy. 2012 , 116, 9716-9723		8
1527	Fabrication of Large-Area, High-Enhancement SERS Substrates with Tunable Interparticle Spacing and Application in Identifying Microorganisms at the Single Cell Level. 2012 , 116, 3320-3328		28
1526	Design Consideration for Surface-Enhanced (Resonance) Raman Scattering Nanotag Cores. 2012 , 116, 2677-2682		9
1525	Quantitative characterization of individual microdroplets using surface-enhanced resonance Raman scattering spectroscopy. <i>Analytical Chemistry</i> , 2012 , 84, 1491-5	7.8	25
1524	Surface-enhanced Raman scattering detection of DNAs derived from virus genomes using Au-coated paramagnetic nanoparticles. 2012 , 28, 4030-7		56
1523	Shell thickness-dependent Raman enhancement for rapid identification and detection of pesticide residues at fruit peels. <i>Analytical Chemistry</i> , 2012 , 84, 255-61	7.8	341
1522	Label-free detection in biological applications of surface-enhanced Raman scattering. 2012 , 38, 67-78		78
1521	Quantitative analysis of the role played by poly(vinylpyrrolidone) in seed-mediated growth of Ag nanocrystals. 2012 , 134, 1793-801		238
1520	Applications of colloidal inorganic nanoparticles: from medicine to energy. 2012 , 134, 15607-20		325
1519	Size matters: gold nanoparticles in targeted cancer drug delivery. 2012 , 3, 457-78		416
1518	Multiplex optical sensing with surface-enhanced Raman scattering: a critical review. 2012 , 745, 10-23		111
1517	Diagnostic applications of Raman spectroscopy. 2012 , 8, 545-58		143
1516	Synthesis of silica-coated gold nanorod as Raman tags by modulating cetyltrimethylammonium bromide concentration. 2012 , 409, 61-68		21
1515	Plasmonic nanostructures for SERRS multiplexed identification of tumor-associated antigens. 2012 , 8, 3733-8		32
1514	A molecular imaging primer: modalities, imaging agents, and applications. 2012 , 92, 897-965		713
1513	Anisotropic surface enhanced Raman scattering in nanoparticle and nanowire arrays. 2012 , 23, 485307		45
1512	Nanomaterials in complex biological systems: insights from Raman spectroscopy. 2012 , 41, 5780-99		74
1511	Hybrid plasmonic platforms based on silica-encapsulated gold nanorods as effective spectroscopic enhancers for Raman and fluorescence spectroscopy. 2012 , 23, 485706		23

1510	SERS-Encoded Particles. 2012 , 33-49		2
1509	Gold nanoparticles in image-guided cancer therapy. 2012 , 393, 154-164		50
1508	Bidirectional optical sorting of gold nanoparticles. 2012 , 12, 1923-7		97
1507	Self-assembled plasmonic vesicles of SERS-encoded amphiphilic gold nanoparticles for cancer cell targeting and traceable intracellular drug delivery. 2012 , 134, 13458-69		369
1506	Exploring the Unique Characteristics of LSPR Biosensing. 2012 , 29-58		4
1505	Identification of abnormal stem cells using Raman spectroscopy. 2012 , 21, 2152-9		21
1504	Optofluidic detection for cellular phenotyping. 2012 , 12, 3552-65		30
1503	Detection of inflammation in vivo by surface-enhanced Raman scattering provides higher sensitivity than conventional fluorescence imaging. <i>Analytical Chemistry</i> , 2012 , 84, 5968-75	7.8	50
1502	GoldPolymer Nanocomposites for Bioimaging and Biosensing. 2012 ,		
1501	Metal Nanoparticles in Biomedical Applications. 2012 , 477-519		3
1500	Real-time molecular imaging throughout the entire cell cycle by targeted plasmonic-enhanced Rayleigh/Raman spectroscopy. 2012 , 12, 5369-75		85
1499	Biochemistry and Biomedical Applications of Spherical Nucleic Acids (SNAs). 2012 , 1-20		6
1498	The use of a handheld Raman system for virus detection. 2012 ,		3
1497	High-sensitivity nanosensors for biomarker detection. 2012 , 41, 2641-55		232
1496	Development of a widefield SERS imaging endoscope. 2012 ,		5
1495	Fundamental studies of surface-enhanced Raman scattering (SERS) using aerosolized substrates. 2012 ,		1
1494	Regiospecific plasmonic assemblies for in situ Raman spectroscopy in live cells. 2012 , 134, 1699-709		240
1493	The influence of nanostructured materials on biointerfacial interactions. 2012 , 64, 1820-39		97

1492	Effect of citrate on poly(vinyl pyrrolidone)-stabilized gold nanoparticles formed by PVP reduction in microwave (MW) synthesis. 2012 , 137, 135-139		11
1491	Highly luminescent CuInS ₂ ZnS nanocrystals: achieving phase transfer and nuclear homing property simultaneously through simple TTAB modification. 2012 , 22, 21979		21
1490	Enhanced protein-mediated binding between oligonucleotide-gold nanoparticle composites and cell surfaces: co-transport of proteins and composites. 2012 , 22, 25036		12
1489	Nanoclusters of iron oxide: effect of core composition on structure, biocompatibility, and cell labeling efficacy. 2012 , 23, 941-50		11
1488	Shape-dependent surface-enhanced Raman scattering in gold-Raman probe-silica sandwiched nanoparticles for biocompatible applications. 2012 , 23, 115501		142
1487	Introduction to Modern Raman Spectroscopy I-New Raman Spectroscopic Branch Classified Based on Spectral Features. 2012 , 105-152		
1486	Real-time monitoring of glutathione-triggered thiopurine anticancer drug release in live cells investigated by surface-enhanced Raman scattering. <i>Analytical Chemistry</i> , 2012 , 84, 2172-8	7.8	105
1485	Biomedical Applications of Gold Nanoparticles. 2012 , 101-145		3
1484	Protein analytical assays for diagnosing, monitoring, and choosing treatment for cancer patients. 2012 , 3, 503-534		35
1483	Raman Spectroscopy for Nanomaterials Characterization. 2012 ,		73
1482	Multifunctional Nanoparticles for Drug Delivery Applications. 2012 ,		25
1481	Multifunctional Nanoparticles for Target-Specific Imaging and Therapy. 2012 , 155-171		
1480	Porphyrin-lipid stabilized gold nanoparticles for surface enhanced Raman scattering based imaging. 2012 , 23, 1726-30		55
1479	Creation and luminescence of size-selected gold nanorods. 2012 , 4, 5017-22		11
1478	Cell imaging by graphene oxide based on surface enhanced Raman scattering. 2012 , 4, 7084-9		99
1477	Solvent-induced hot spot switch on silver nanorod enhanced Raman spectroscopy. 2012 , 137, 1547-9		43
1476	Glucose-responsive multifunctional acupuncture needle: A universal SERS detection strategy of small biomolecules in vivo. 2012 , 4, 3879		19
1475	Multilayered shell SERS nanotags with a highly uniform single-particle Raman readout for ultrasensitive immunoassays. 2012 , 48, 9421-3		45

1474	Synthesis Applications of Gold Nanoparticles. 2012 , 3-33	7
1473	Diagnostic Applications. 2012 , 265-284	
1472	High interstitial fluid pressure is associated with low tumour penetration of diagnostic monoclonal antibodies applied for molecular imaging purposes. 2012 , 7, e36258	44
1471	A novel magnetic nanoparticle drug carrier for enhanced cancer chemotherapy. 2012 , 7, e40388	25
1470	Towards real-time detection of tumor margins using photothermal imaging of immune-targeted gold nanoparticles. 2012 , 7, 4707-13	20
1469	Designing Gold Nanoparticle-Ensembles as Surface Enhanced Raman Scattering Tags inside Human Retinal Cells. 2012 , 2012, 1-10	11
1468	Water-Based Assembly and Purification of Plasmon-Coupled Gold Nanoparticle Dimers and Trimers. 2012 , 2012, 1-5	9
1467	SURFACE PLASMON PROPERTIES OF HOLLOW AuAg ALLOYED TRIANGULAR NANOBXES AND ITS APPLICATIONS IN SERS IMAGING AND POTENTIAL DRUG DELIVERY. 2012 , 128, 35-53	14
1466	In vitro perforation of human epithelial carcinoma cell with antibody-conjugated biodegradable microspheres illuminated by a single 80 femtosecond near-infrared laser pulse. 2012 , 7, 2653-60	14
1465	Interactions of human endothelial cells with gold nanoparticles of different morphologies. 2012 , 8, 122-30	97
1464	Gadolinium-doped silica nanoparticles encapsulating indocyanine green for near infrared and magnetic resonance imaging. 2012 , 8, 2856-68	57
1463	The unique role of nanoparticles in nanomedicine: imaging, drug delivery and therapy. 2012 , 41, 2885-911	859
1462	The golden age: gold nanoparticles for biomedicine. 2012 , 41, 2740-79	2437
1461	Monolayer coated gold nanoparticles for delivery applications. 2012 , 64, 200-16	382
1460	Plasmon-Controlled Fluorescence: Beyond the Intensity Enhancement. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 191-202	6.4 339
1459	Noble metal coated single-walled carbon nanotubes for applications in surface enhanced Raman scattering imaging and photothermal therapy. 2012 , 134, 7414-22	391
1458	Gold nanoparticles in chemical and biological sensing. 2012 , 112, 2739-79	3476
1457	Chitosan-coated anisotropic silver nanoparticles as a SERS substrate for single-molecule detection. 2012 , 23, 055501	82

1456	Portable SERS Sensor for Sensitive Detection of Food-Borne Pathogens. 2012 , 531-551	3
1455	Multiplexed SERS for DNA Detection. 2012 , 353-378	3
1454	Noble metal nanoparticles for biosensing applications. 2012 , 12, 1657-87	479
1453	Gold nanoparticle-enabled biological and chemical detection and analysis. 2012 , 41, 2849-66	557
1452	Probing liquid/solid interfaces at the molecular level. 2012 , 112, 2920-86	311
1451	Detecting and destroying cancer cells in more than one way with noble metals and different confinement properties on the nanoscale. 2012 , 45, 1854-65	104
1450	Role of antibody-mediated tumor targeting and route of administration in nanoparticle tumor accumulation in vivo. 2012 , 9, 2168-79	78
1449	Resonance scattering particles as biological nanosensors in vitro and in vivo. 2012 , 41, 632-42	148
1448	Nanoparticle-based artificial RNA silencing machinery for antiviral therapy. 2012 , 109, 12387-92	52
1447	Surface-enhanced Raman scattering spectroscopy for potential noninvasive nasopharyngeal cancer detection. 2012 , 43, 497-502	40
1446	Nanoprobes for intracellular and single cell surface-enhanced Raman spectroscopy (SERS). 2012 , 43, 817-827	60
1445	Raman Labeled Nanoparticles: Characterization of Variability and Improved Method for Unmixing. 2012 , 43, 895-905	6
1444	Enhancement in SERS intensity with hierarchical nanostructures by bimetallic deposition approach. 2012 , 43, 977-985	37
1443	Bioanalytical application of surface- and tip-enhanced Raman spectroscopy. 2012 , 12, 131-143	60
1442	In-vivo Tumor detection using diffusion reflection measurements of targeted gold nanorods - a quantitative study. 2012 , 5, 263-73	52
1441	Gold nanoparticles: preparation, properties, and applications in bionanotechnology. 2012 , 4, 1871-80	814
1440	Effect of gold nanosphere surface chemistry on protein adsorption and cell uptake in vitro. 2012 , 167, 327-37	25
1439	Engineering plasmonic gold nanostructures and metamaterials for biosensing and nanomedicine. 2012 , 24, 5153-65	113

1438	Hybrid nanoparticles for detection and treatment of cancer. 2012 , 24, 3779-802	356
1437	SHG nanoprobes: advancing harmonic imaging in biology. 2012 , 34, 351-60	68
1436	Selective and sensitive recognition of Cu ²⁺ in an aqueous medium: a surface-enhanced Raman scattering (SERS)-based analysis with a low-cost Raman reporter. 2012 , 18, 6335-42	39
1435	Biocompatible triplex Ag@SiO ₂ @mTiO ₂ core-shell nanoparticles for simultaneous fluorescence-SERS bimodal imaging and drug delivery. 2012 , 18, 5935-43	92
1434	Controlled synthesis of gold nanostars by using a zwitterionic surfactant. 2012 , 18, 9381-90	69
1433	Comparison of the peroxidase-like activity of unmodified, amino-modified, and citrate-capped gold nanoparticles. 2012 , 13, 1199-204	207
1432	Engineering metallic nanostructures for plasmonics and nanophotonics. 2012 , 75, 036501	366
1431	Raman and Fluorescence Spectral Imaging of Live Breast Cancer Cells Incubated with PEGylated Gold Nanorods. 2012 , 66, 66-74	11
1430	Multifunctional Fe ₃ O ₄ /TaO(x) core/shell nanoparticles for simultaneous magnetic resonance imaging and X-ray computed tomography. 2012 , 134, 10309-12	193
1429	Surface-Enhanced Raman Scattering (SERS) on transition metal and semiconductor nanostructures. 2012 , 14, 5891-901	158
1428	Tunable synthesis and acetylation of dendrimer-entrapped or dendrimer-stabilized gold-silver alloy nanoparticles. 2012 , 94, 58-67	54
1427	Pluronic-Nanogold hybrids: synthesis and tagging with photosensitizing molecules. 2012 , 97, 77-83	26
1426	Multifunctional poly (lactide-co-glycolide) nanoparticles for luminescence/magnetic resonance imaging and photodynamic therapy. 2012 , 434, 257-63	37
1425	One-pot aqueous phase growth of biocompatible 15-130 nm gold nanoparticles stabilized with bidentate PEG. 2012 , 376, 107-11	14
1424	Molecular imaging of a cancer-targeting theragnostics probe using a nucleolin aptamer- and microRNA-221 molecular beacon-conjugated nanoparticle. 2012 , 33, 207-17	160
1423	The cytotoxicity of cadmium-based quantum dots. 2012 , 33, 1238-44	543
1422	Single base extension reaction-based surface enhanced Raman spectroscopy for DNA methylation assay. 2012 , 31, 451-7	83
1421	Highly sensitive SERS detection of cancer proteins in low sample volume using hollow core photonic crystal fiber. 2012 , 33, 293-8	102

1420	A practicable detection system for genetically modified rice by SERS-barcoded nanosensors. 2012 , 34, 118-24	42
1419	Gadolinium metallofullerenol nanoparticles inhibit cancer metastasis through matrix metalloproteinase inhibition: imprisoning instead of poisoning cancer cells. 2012 , 8, 136-46	86
1418	Multiplex targeted in vivo cancer detection using sensitive near-infrared SERS nanotags. 2012 , 7, 85-93	181
1417	Preparation and characterization of multicore SERS labels by controlled aggregation of gold nanoparticles. 2012 , 60, 79-84	13
1416	Application of surface-enhanced Raman in skin cancer by plasma. 2012 , 22, 996-1001	3
1415	Exploring How to Increase the Brightness of Surface-Enhanced Raman Spectroscopy Nanolabels: The Effect of the Raman-Active Molecules and of the Label Size. 2012 , 22, 353-360	58
1414	Design of multifunctional micelle for tumor-targeted intracellular drug release and fluorescent imaging. 2012 , 24, 115-20	226
1413	Distinguishing breast cancer cells using surface-enhanced Raman scattering. 2012 , 402, 1093-100	69
1412	Speckled SiO ₂ @Au Core-shell Particles as Surface Enhanced Raman Scattering Probes. 2013 , 8, 185-191	31
1411	Facile synthesis of Au-Ag core-shell nanoparticles with uniform sub-2.5 nm interior nanogaps. 2013 , 49, 8519-21	11
1410	Gold nanoparticles: role of size and surface chemistry on blood protein adsorption. 2013 , 15, 1	22
1409	'Living' PEGylation on gold nanoparticles to optimize cancer cell uptake by controlling targeting ligand and charge densities. 2013 , 24, 355101	42
1408	Cucumber mosaic virus as drug delivery vehicle for doxorubicin. 2013 , 34, 4632-42	114
1407	Statistical Correlation Between SERS Intensity and Nanoparticle Cluster Size. 2013 , 117, 16596-16605	34
1406	Theragnostic pH-sensitive gold nanoparticles for the selective surface enhanced Raman scattering and photothermal cancer therapy. <i>Analytical Chemistry</i> , 2013 , 85, 7674-81	7.8 81
1405	New Gold Nanoparticles Adhesion Process Opening the Way of Improved and Highly Sensitive Plasmonics Technologies. 2013 , 8, 411-415	17
1404	3D optical imaging of multiple SERS nanotags in cells. 2013 , 4, 3566	54
1403	Nanoparticles for Improving Cancer Diagnosis. 2013 , 74, 35-69	81

1402	Raman spectroscopy in nanomedicine: current status and future perspective. 2013 , 8, 1335-51		39
1401	Predictive value of the surface-enhanced resonance Raman scattering-based MTT assay: a rapid and ultrasensitive method for cell viability in situ. <i>Analytical Chemistry</i> , 2013 , 85, 7361-8	7.8	29
1400	Preparation and properties of multi-functional Fe ₃ O ₄ @PNIPAM-AAM@Au composites. 2013 , 96, 89-92		9
1399	Effect of the spacer structure on the stability of gold nanoparticles functionalized with monodentate thiolated poly(ethylene glycol) ligands. 2013 , 29, 9897-908		66
1398	Highly localized photothermal conversion in two-dimensional Au nanoparticle arrays. 2013 , 114, 074308		6
1397	Surface-enhanced Raman scattering dye-labeled Au nanoparticles for triplexed detection of leukemia and lymphoma cells and SERS flow cytometry. 2013 , 29, 1908-19		90
1396	Facile fabrication of leafy spikes-like silver dendrite crystals for SERS substrate. 2013 , 48, 4125-4133		6
1395	Molecular imaging with surface-enhanced Raman spectroscopy nanoparticle reporters. 2013 , 38, 625		10
1394	An Overview of Nanoparticle-Assisted Polymerase Chain Reaction Technology. 2013 , 97-106		2
1393	Plasmonic photothermal heating of intraperitoneal tumors through the use of an implanted near-infrared source. 2013 , 7, 8089-97		104
1392	Surface-enhanced Raman scattering study of carcinoembryonic antigen in serum from patients with colorectal cancers. 2013 , 113, 597-602		7
1391	Controlling carbon encapsulation of gold nano-aggregates as highly sensitive and spectrally stable SERS tags for live cell imaging. 2013 , 1, 4364-4369		22
1390	Plasmon Resonant gold nanoparticles for cancer optical imaging. 2013 , 56, 506-513		13
1389	Waveguide-Enhanced Surface Plasmons for Ultrasensitive SERS Detection. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 3153-3157	6.4	33
1388	Sensing the Moving Direction, Position, Size, and Material Type of Nanoparticles with the Two-Photon-Induced Luminescence of a Single Gold Nanorod. 2013 , 117, 20146-20153		29
1387	Near-Infrared SERS Nanoprobes with Plasmonic Au/Ag Hollow-Shell Assemblies for In Vivo Multiplex Detection. 2013 , 23, 3719-3727		106
1386	Recent advances in micro/nano-particles for clinical detection of cancer biomarkers. 2013 , 5, 5862		6
1385	Raman and surface-enhanced Raman scattering (SERS) biosensing. 2013 ,		

1384	Self-assembly of gold nanoparticles to silver microspheres as highly efficient 3D SERS substrates. 2013 , 8, 168		14
1383	High-density sub-100-nm peptide-gold nanoparticle complexes improve vaccine presentation by dendritic cells in vitro. 2013 , 8, 72		57
1382	Control of nano and microchemical systems. 2013 , 51, 149-156		18
1381	Poly(ethylene glycol)- and carboxylate-functionalized gold nanoparticles using polymer linkages: single-step synthesis, high stability, and plasmonic detection of proteins. 2013 , 29, 13518-26		21
1380	A chemically reactive Raman probe for ultrasensitively monitoring and imaging the in vivo generation of femtomolar oxidative species as induced by anti-tumor drugs in living cells. 2013 , 49, 6647-9		35
1379	Biodegradable theranostic plasmonic vesicles of amphiphilic gold nanorods. 2013 , 7, 9947-60		153
1378	The use of an engineered single chain variable fragment in a localized surface plasmon resonance method for analysis of the C-reactive protein. 2013 , 49, 9497-9		23
1377	Plasmonics for pulsed-laser cell nanosurgery: Fundamentals and applications. 2013 , 17, 26-49		111
1376	Hybrid Graphene Oxide Based Ultrasensitive SERS Probe for Label-Free Biosensing. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 3813-3818	6.4	120
1375	LSPR-dependent SERS performance of silver nanoplates with highly stable and broad tunable LSPRs prepared through an improved seed-mediated strategy. 2013 , 15, 21034-42		63
1374	Targeting prostate cancer cells with PSMA inhibitor-guided gold nanoparticles. 2013 , 23, 565-8		39
1373	In situ probing of intracellular pH by fluorescence from inorganic nanoparticles. 2013 , 34, 9183-9		26
1372	Silver nano islands enhanced Raman scattering on large area grating substrates fabricated by two beam laser interference. 2013 , 29, 1006-1010		7
1371	Nanotechnology in Molecular Diagnostics. 2013 , 383-398		2
1370	Gold nanoparticles: recent aspects for human toxicology. 2013 , 8, 32		105
1369	Synthesis of anisotropic gold shell on carbon nanotube. 2013 , 15, 1		
1368	DNAzyme-functionalized gold nanoparticles for biosensing. 2014 , 140, 93-120		16
1367	Silver nanocube on gold microplate as a well-defined and highly active substrate for SERS detection. 2013 , 1,		14

1366	Amphiphilic Polymeric Nanocarriers with Luminescent Gold Nanoclusters for Concurrent Bioimaging and Controlled Drug Release. 2013 , 23, 4324-4331	88
1365	Arrays of Nanoscale Gold Dishes Containing Engineered Substructures. 2013 , 1, 814-818	8
1364	Separation, identification and fast determination of organophosphate pesticide methidathion in tea leaves by thin layer chromatography/surface-enhanced Raman scattering. 2013 , 5, 5560	35
1363	SERS-based detection of barcoded gold nanoparticle assemblies from within animal tissue. 2013 , 44, 1659-1665	15
1362	High specific detection and near-infrared photothermal therapy of lung cancer cells with high SERS active aptamer-silver-gold shell-core nanostructures. 2013 , 138, 6501-10	56
1361	Synthesis of size-controlled silver nanodecahedrons and their application for core-shell surface enhanced Raman scattering (SERS) tags. 2013 , 3, 966-974	8
1360	Graphene oxide wrapped gold nanoparticles for intracellular Raman imaging and drug delivery. 2013 , 1, 6495-6500	120
1359	Silica-coated dimers of silver nanospheres as surface-enhanced Raman scattering tags for imaging cancer cells. 2013 , 3, 20120092	31
1358	Quantitative photoacoustic imaging of nanoparticles in cells and tissues. 2013 , 7, 1272-80	47
1357	Self-assembled hyperbranched polymer-gold nanoparticle hybrids: understanding the effect of polymer coverage on assembly size and SERS performance. 2013 , 29, 525-33	50
1356	Surface-enhanced Raman scattering imaging using noble metal nanoparticles. 2013 , 5, 180-9	25
1355	Surface analysis using shell-isolated nanoparticle-enhanced Raman spectroscopy. 2013 , 8, 52-65	304
1354	Surface engineering of inorganic nanoparticles for imaging and therapy. 2013 , 65, 622-48	262
1353	Hematite nanoparticle-templated hollow carbon nanonets supported palladium nanoparticles: preparation and application as efficient recyclable catalysts. 2013 , 3, 952-961	30
1352	Novel biospectroscopy sensor technologies towards environmental health monitoring in urban environments. 2013 , 183, 46-53	11
1351	Gold nanoparticles: emerging paradigm for targeted drug delivery system. 2013 , 31, 593-606	250
1350	Microparticles and Nanoparticles. 2013 , 360-388	7
1349	Multifunctional gold nanoparticles for diagnosis and therapy of disease. 2013 , 10, 831-47	496

1348	Nanotechnology meets oral cancer: how, why, and when?. 2013 , 115, 703-4	
1347	Sensitive amperometric immunosensor for Hefetoprotein detection based on multifunctional dumbbell-like Au-Fe ₃ O ₄ heterostructures. 2013 , 186, 34-43	42
1346	Plasmons driven by single electrons in graphene nanoislands. 2013 , 2, 139-151	38
1345	Nanostructured films of metal particles obtained by laser ablation. 2013 , 543, 118-121	9
1344	Nanoplasmonic Au nanodot arrays as an SERS substrate for biomedical applications. 2013 , 282, 161-164	35
1343	Renal clearable inorganic nanoparticles: a new frontier of bionanotechnology. 2013 , 16, 477-486	228
1342	Gated tunability and hybridization of localized plasmons in nanostructured graphene. 2013 , 7, 2388-95	534
1341	SERS tags: novel optical nanoprobe for bioanalysis. 2013 , 113, 1391-428	1003
1340	Functionalizing nanoparticles with biological molecules: developing chemistries that facilitate nanotechnology. 2013 , 113, 1904-2074	1008
1339	Self-assembled plasmonic nanoring cavity arrays for SERS and LSPR biosensing. 2013 , 25, 2678-85	188
1338	Surface-enhanced Raman scattering (SERS) from Au:Ag bimetallic nanoparticles: the effect of the molecular probe. 2013 , 4, 509-515	147
1337	Nanohybridization of Low-Dimensional Nanomaterials: Synthesis, Classification, and Application. 2013 , 38, 1-56	13
1336	Polyoxometalate-stabilized, water dispersible FePt magnetic nanoparticles. 2013 , 5, 2511-9	19
1335	Size dependent competition between second harmonic generation and two-photon luminescence observed in gold nanoparticles. 2013 , 24, 075201	28
1334	PEGylated gold nanoparticles: polymer quantification as a function of PEG lengths and nanoparticle dimensions. 2013 , 3, 6085-6094	222
1333	Recent developments and future directions in SERS for bioanalysis. 2013 , 15, 5312-28	96
1332	Medical applications of surface-enhanced Raman scattering. 2013 , 15, 5329-44	130
1331	Fabrication of graphene oxide/Ag hybrids and their surface-enhanced Raman scattering characteristics. 2013 , 397, 103-7	29

1330	Nanomaterials for photo-based diagnostic and therapeutic applications. 2013 , 3, 152-66		202
1329	Biosynthesis, structural characterization and antimicrobial activity of gold and silver nanoparticles. 2013 , 107, 227-34		171
1328	Thorough tuning of the aspect ratio of gold nanorods using response surface methodology. 2013 , 779, 14-21		19
1327	Plasmonic nanorice antenna on triangle nanoarray for surface-enhanced Raman scattering detection of hepatitis B virus DNA. <i>Analytical Chemistry</i> , 2013 , 85, 2072-8	7.8	128
1326	Design of label-free, homogeneous biosensing platform based on plasmonic coupling and surface-enhanced Raman scattering using unmodified gold nanoparticles. 2013 , 43, 308-14		24
1325	Field-enhanced Raman scattering by silver nanoparticle with graded SiO ₂ coating. 2013 , 102, 153105		4
1324	Nano-sized CT contrast agents. 2013 , 25, 2641-60		411
1323	High surface-enhanced Raman scattering performance of individual gold nanoflowers and their application in live cell imaging. 2013 , 9, 927-32		71
1322	Plasmon-enhanced chemical reactions. 2013 , 1, 5790		230
1321	Quantitative surface-enhanced resonant Raman scattering multiplexing of biocompatible gold nanostars for in vitro and ex vivo detection. <i>Analytical Chemistry</i> , 2013 , 85, 208-12	7.8	123
1320	Intracellular surface-enhanced Raman scattering (SERS) with thermally stable gold nanoflowers grown from Pt and Pd seeds. 2013 , 5, 4321-9		24
1319	Chitosan-coated triangular silver nanoparticles as a novel class of biocompatible, highly sensitive plasmonic platforms for intracellular SERS sensing and imaging. 2013 , 5, 6013-22		54
1318	Recent developments in optofluidic-assisted Raman spectroscopy. 2013 , 37, 1-50		21
1317	Membrane mimetic surface functionalization of nanoparticles: methods and applications. 2013 , 197-198, 68-84		53
1316	Modeling of Protected Nanoparticles. 2013 , 275-304		
1315	Optical field enhancement by strong plasmon interaction in graphene nanostructures. 2013 , 110, 187401		75
1314	Hollow luminescent carbon dots for drug delivery. 2013 , 59, 192-199		342
1313	Surface-enhanced Raman scattering in cancer detection and imaging. 2013 , 31, 249-57		320

1312	The aryl hydrocarbon receptor: a molecular pathway for the environmental control of the immune response. 2013 , 138, 183-9		77
1311	A Monte Carlo-based model of gold nanoparticle radiosensitization accounting for increased radiobiological effectiveness. 2013 , 58, 3075-87		104
1310	Functionalized polymersomes for biomedical applications. 2013 , 4, 3160		90
1309	Surface-Enhanced Raman Spectroscopy of Polyelectrolyte-Wrapped Gold Nanoparticles in Colloidal Suspension. 2013 , 117,		21
1308	A method for controlling the aggregation of gold nanoparticles: tuning of optical and spectroscopic properties. 2013 , 29, 8266-74		62
1307	Silicon nanowire-based surface-enhanced raman spectroscopy endoscope for intracellular pH detection. 2013 , 5, 5811-4		29
1306	Augmented anticancer activity of a targeted, intracellularly activatable, theranostic nanomedicine based on fluorescent and radiolabeled, methotrexate-folic Acid-multiwalled carbon nanotube conjugate. 2013 , 10, 2543-57		83
1305	Theoretical investigation on surface-enhanced Raman evidence for conformation transition of dimercaptoazobenzene adsorbed on gold nanoclusters. 2013 , 44, 425-432		11
1304	Raman imaging in biochemical and biomedical applications. Diagnosis and treatment of breast cancer. 2013 , 113, 5766-81		173
1303	Temporal techniques: dynamic tracking of nanomaterials in live cells. 2013 , 9, 1585-94		15
1302	Competition Between Extinction and Enhancement in Surface Enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 1193-1196	6.4	24
1301	Surface-enhanced Raman scattering-based sensing in vitro: facile and label-free detection of apoptotic cells at the single-cell level. <i>Analytical Chemistry</i> , 2013 , 85, 2809-16	7.8	77
1300	Highly sensitive detection of target ssDNA based on SERS liquid chip using suspended magnetic nanospheres as capturing substrates. 2013 , 29, 6147-55		44
1299	Rational design and synthesis of SERS labels. 2013 , 138, 2224-38		138
1298	Plasmonic amplifiers: engineering giant light enhancements by tuning resonances in multiscale plasmonic nanostructures. 2013 , 9, 1939-46		15
1297	A method of measuring gold nanoparticle concentrations by X-ray fluorescence for biomedical applications. 2013 , 40, 051901		18
1296	Novel Apolar Plasmonic Nanostructures with Extended Optical Tunability for Sensing Applications. 2013 , 8, 475-480		6
1295	Functionalized Plasmonic Anisotropic Nanocrystals for Multimodal Imaging of Cancer Cells. 2013 , 8, 313-318		5

1294	Light-induced generation of singlet oxygen by naked gold nanoparticles and its implications to cancer cell phototherapy. 2013 , 9, 4130-4	74
1293	Gold nanoparticles: a paradigm shift in biomedical applications. 2013 , 199-200, 44-58	119
1292	A review of terahertz plasmonics in subwavelength holes on conducting films. 2013 , 19, 8400416-8400416	24
1291	Bilayered Raman-intense gold nanostructures with hidden tags (BRIGHTs) for high-resolution bioimaging. 2013 , 25, 1022-7	126
1290	CHAPTER 7:Smart Polymersomes: Formation, Characterisation and Applications. 2013 , 179-207	7
1289	Nanobiosensors. 2013 , 127-179	1
1288	Correct spectral conversion between surface-enhanced raman and plasmon resonance scattering from nanoparticle dimers for single-molecule detection. 2013 , 9, 1106-15	35
1287	Multifunctional nanoparticles for drug delivery and molecular imaging. 2013 , 15, 253-82	369
1286	One step synthesis of SERS active colloidal gold nanoparticles by reduction with polyethylene glycol. 2013 , 436, 133-138	23
1285	Nano-opto-electronics for biomedicine. 2013 , 58, 2521-2529	5
1284	Spatially resolved investigation of the oil composition in single intact hyphae of <i>Mortierella</i> spp. with micro-Raman spectroscopy. 2013 , 1831, 341-9	14
1283	Evaluation of SERS labeling of CD20 on CLL cells using optical microscopy and fluorescence flow cytometry. 2013 , 9, 55-64	23
1282	The big picture on nanomedicine: the state of investigational and approved nanomedicine products. 2013 , 9, 1-14	714
1281	Nanotechnology for cancer screening and diagnosis. 2013 , 137-164	9
1280	Influence of nanosecond pulsed laser irradiance on the viability of nanoparticle-loaded cells: implications for safety of contrast-enhanced photoacoustic imaging. 2013 , 24, 465101	8
1279	Surface-enhanced Raman scattering for in vivo imaging: the future looks BRIGHT?. 2013 , 8, 317-20	14
1278	3D graphene oxide-encapsulated gold nanoparticles to detect neural stem cell differentiation. 2013 , 34, 8660-70	115
1277	Facile preparation of chiral penicillamine protected gold nanoclusters and their applications in cell imaging. 2013 , 49, 2302-4	57

1276	An x-ray fluorescence imaging system for gold nanoparticle detection. 2013 , 58, 7841-55	52
1275	Predicting plasmonic coupling with Mie theory in silver nanoparticle arrays. 2013 , 15, 1	19
1274	Excitation of confined modes on particle arrays. 2013 , 21, 5636-42	11
1273	Multi-level surface enhanced Raman scattering using AgOx thin film. 2013 , 21, 24460-7	33
1272	One-Step Synthesis of PEGylated Gold Nanoparticles with Tunable Surface Charge. 2013 , 2013, 1-7	35
1271	Nanoparticles as Drug Delivery Systems in Cancer Medicine: Emphasis on RNAi-Containing Nanoliposomes. 2013 , 6, 1361-80	89
1270	Double Amino Functionalized Ag Nanoparticles as SERS Tags in Raman Diagnostic. 2013 , 86, 233-244	9
1269	High-sensitivity, real-time, ratiometric imaging of surface-enhanced Raman scattering nanoparticles with a clinically translatable Raman endoscope device. 2013 , 18, 096008	51
1268	One-Step Synthesis of PEG-Coated Gold Nanoparticles by Rapid Microwave Heating. 2013 , 2013, 1-6	25
1267	Applications of Nanoparticles for MRI Cancer Diagnosis and Therapy. 2013 , 2013, 1-12	59
1266	A Raman-based endoscopic strategy for multiplexed molecular imaging. 2013 , 110, E2288-97	188
1265	Nanomaterials for reversion of multidrug resistance in cancer: a new hope for an old idea?. 2013 , 4, 134	26
1264	A small animal Raman instrument for rapid, wide-area, spectroscopic imaging. 2013 , 110, 12408-13	133
1263	Surface-enhanced Raman spectroscopy at single-molecule scale and its implications in biology. 2013 , 368, 20120026	77
1262	Gold nanoparticle imaging and radiotherapy of brain tumors in mice. 2013 , 8, 1601-9	291
1261	Molecular conformation changes along the malignancy revealed by optical nanosensors. 2013 , 17, 277-86	12
1260	Laser-induced synthesis of metallic silver-gold nanoparticles encapsulated in carbon nanospheres for surface-enhanced Raman spectroscopy and toxins detection. 2013 , 103, 113102	19
1259	Experimental demonstration of direct L-shell x-ray fluorescence imaging of gold nanoparticles using a benchtop x-ray source. 2013 , 40, 080702	29

1258	Inorganic nanocrystals as contrast agents in MRI: synthesis, coating and introduction of multifunctionality. 2013 , 26, 766-80	39
1257	Application of silver nanoparticle-based SERS spectroscopy for DNA analysis in irradiated nasopharyngeal carcinoma cells. 2013 , 44, 680-685	16
1256	Robust analysis of multiplexed SERS microscopy of Ag nanocubes using an alternating minimization algorithm. 2013 , 44, 703-709	5
1255	Powering the programmed nanostructure and function of gold nanoparticles with catenated DNA machines. 2013 , 4, 2000	113
1254	Research Highlights: Highlights from the latest articles on molecular imaging with Raman spectroscopy. 2013 , 5, 11-14	
1253	Surface-Enhanced Infrared Spectroscopy. 2013 , 315-330	
1252	Biopsy with thermally-responsive untethered microtools. 2013 , 25, 514-9	160
1251	Ultrasensitive SERS detection of lysozyme by a target-triggering multiple cycle amplification strategy based on a gold substrate. 2013 , 19, 7452-60	33
1250	Antibody-based sensors for disease detection. 2013 , 6-23	1
1249	Surface-enhanced Raman spectroscopy for biomedical diagnostics and imaging. 2013 , 2, 51-71	9
1248	In vivo imaging: Raman-style. 2013 , 54, 119-21	1
1247	Inhibiting the growth of pancreatic adenocarcinoma in vitro and in vivo through targeted treatment with designer gold nanotherapeutics. 2013 , 8, e57522	23
1246	Method for assessing the reliability of molecular diagnostics based on multiplexed SERS-coded nanoparticles. 2013 , 8, e62084	21
1245	Ultra-pure, water-dispersed Au nanoparticles produced by femtosecond laser ablation and fragmentation. 2013 , 8, 2601-11	18
1244	Gold nanoparticles prepared by laser ablation in aqueous biocompatible solutions: assessment of safety and biological identity for nanomedicine applications. 2014 , 9, 5415-30	60
1243	Infrared-transparent gold nanoparticles converted by tumors to infrared absorbers cure tumors in mice by photothermal therapy. 2014 , 9, e88414	48
1242	Gold Nanoparticles - Synthesis and Applications in Cancer Management. 2014 , 7, 8-25	6
1241	. 2014 ,	5

1240	. 2014,	1
1239	. 2014,	7
1238	. 2014,	8
1237	Functional semiconducting silicon nanowires for cellular binding and internalization. 2014, 89-103	
1236	Nanoplasmonic biopatch for in vivo surface enhanced raman spectroscopy. 2014, 8, 289-294	10
1235	Au/Ag nanoalloy shells as near-infrared SERS nanoprobe for the detection of protein. 2014, 1, 045408	6
1234	SERS-based detection of biomolecules. 2014, 3, 383-411	79
1233	In vitro assessment of antibody-conjugated gold nanorods for systemic injections. 2014, 12, 55	27
1232	X-Ray Fluorescence Computed Tomography With Polycapillary Focusing. 2014, 2, 1138-1142	6
1231	Rapid ratiometric biomarker detection with topically applied SERS nanoparticles. 2014, 2, 118-132	45
1230	Reentrant paramagnetism induced by drastic reduction of magnetic couplings at surfaces of superparamagnetic nanoparticles. 2014, 90,	8
1229	A promising road with challenges: where are gold nanoparticles in translational research?. 2014, 9, 2353-70	50
1228	Oberflächenverstärkte Raman-Spektroskopie: Konzepte und chemische Anwendungen. 2014, 126, 4852-4894	74
1227	Surface-Enhanced Raman Spectroscopy (SERS): General Introduction. 2014, 1-34	9
1226	Drug delivery nanoparticles in skin cancers. 2014, 2014, 895986	90
1225	Laser spectrometry for multi-elemental imaging of biological tissues. 2014, 4, 6065	92
1224	Surface-enhanced Raman scattering-based detection of cancerous renal cells. 2014, 68, 617-24	25
1223	Circulating tumor cell detection using photoacoustic spectral methods. 2014,	1

1222	X-ray optics of gold nanoparticles. 2014 , 53, 7208-14		5
1221	Does the targeted delivery of theranostic carbon nanotubes have potential as a valid anticancer strategy?. 2014 , 5, 1-5		3
1220	In vivo imaging of nanoparticle delivery and tumor microvasculature with multimodal optical coherence tomography. 2014 , 5, 1731-43		35
1219	Stray light suppression in spectroscopy using periodic shadowing. 2014 , 22, 7711-21		29
1218	Gold nanoparticle assemblies of controllable size obtained by hydroxylamine reduction at room temperature. 2014 , 16, 1		12
1217	Vision 20/20: the role of Raman spectroscopy in early stage cancer detection and feasibility for application in radiation therapy response assessment. 2014 , 41, 050901		31
1216	Biocompatible surface-enhanced Raman scattering nanotags for in vivo cancer detection. 2014 , 9, 523-35		22
1215	Highly specific electrochemical analysis of cancer cells using multi-nanoparticle labeling. 2014 , 53, 13145-9		89
1214	Nano-Oncologicals. 2014 ,		4
1213	Targeted radiotherapy with gold nanoparticles: current status and future perspectives. 2014 , 9, 1063-82		124
1212	A novel process to prepare a thin silica shell on the PDDA-stabilized spherical Au nanoparticles assisted by UV light irradiation. 2014 , 4, 64668-64674		6
1211	Shedding light on the extinction-enhancement duality in gold nanostar-enhanced Raman spectroscopy. 2014 , 53, 14115-9		64
1210	Label-free surface-enhanced Raman scattering imaging to monitor the metabolism of antitumor drug 6-mercaptopurine in living cells. <i>Analytical Chemistry</i> , 2014 , 86, 11503-7	7.8	51
1209	Large-scale sub-100 nm compound plasmonic grating arrays to control the interaction between localized and propagating plasmons. 2014 , 8, 083897		7
1208	SERS-barcode colloidal gold NP assemblies as imaging agents for use in biodiagnostics. 2014 ,		1
1207	Generation of stable colloidal gold nanoparticles by ultrashort laser-induced melting and fragmentation. 2014 , 1, 035028		12
1206	Gold nanoparticles sensing with diffusion reflection measurement as a new medical diagnostics application. 2014 ,		
1205	X-ray micromodulated luminescence tomography in dual-cone geometry. 2014 , 19, 76002		18

1204	Co-enhancement of fluorescence and singlet oxygen generation by silica-coated gold nanorods core-shell nanoparticle. 2014 , 9, 2492	31
1203	Pharmacokinetics, clearance, and biosafety of polyethylene glycol-coated hollow gold nanospheres. 2014 , 11, 26	47
1202	Conditionally activating optical contrast agent with enhanced sensitivity via gold nanoparticle plasmon energy transfer: feasibility study. 2014 , 12, 56	7
1201	Surface Enhanced Raman Scattering (SERS) Image Cytometry for High-Content Screening. 2014 , 93-108	2
1200	The infiltration-centrifugation technique for extraction of apoplastic fluid from plant leaves using <i>Phaseolus vulgaris</i> as an example. 2014 ,	35
1199	Low-cost, high-sensitivity SERS nano-bio-chip for kinase profiling, drug monitoring and environmental detection: a translational platform technology. 2014 ,	1
1198	Silicon-Based Platform for Biosensing Applications. 2014 , 39-59	2
1197	Plasmonic nanobubble theranostics for intra-operative and preventive treatment of head and neck squamous cell carcinoma. 2014 ,	
1196	Antitumor activity of galactoxyloglucan-gold nanoparticles against murine ascites and solid carcinoma. 2014 , 116, 219-27	24
1195	Optimization of PAMAM-gold nanoparticle conjugation for gene therapy. 2014 , 35, 1725-1734	69
1194	Use of surface-enhanced Raman scattering for detection of cancer-related serum-constituents in gastrointestinal cancer patients. 2014 , 10, 599-608	32
1193	Raman spectroscopy of gold nanoparticle conjugates of cosmetic ingredient kinetin. 2014 , 73, 15-18	7
1192	Fundamental studies on enhancement and blinking mechanism of surface-enhanced Raman scattering (SERS) and basic applications of SERS biological sensing. 2014 , 9, 31-46	55
1191	Surface-enhanced Raman spectroscopy: concepts and chemical applications. 2014 , 53, 4756-95	1533
1190	Vibrational spectroscopy for probing molecular-level interactions in organic films mimicking biointerfaces. 2014 , 207, 199-215	26
1189	Silicon Nano-biotechnology. 2014 ,	8
1188	Modeling and Simulation of Plasmonic Nanoparticles Using Finite-Difference Time-Domain Method: A Review. 2014 , 781, 33-44	1
1187	Antibody-drug gold nanoantennas with Raman spectroscopic fingerprints for in vivo tumour theranostics. 2014 , 183, 87-93	86

1186	Nanomedicine: tiny particles and machines give huge gains. 2014 , 42, 243-59	21
1185	Cytotoxicity of carbon nanotube/polycitric acid hybrid nanomaterials. 2014 , 23, 195-201	6
1184	Emerging technology: applications of Raman spectroscopy for prostate cancer. 2014 , 33, 673-93	56
1183	Enhanced photodynamic efficacy of PLGA-encapsulated 5-ALA nanoparticles in mice bearing Ehrlich ascites carcinoma. 2014 , 4, 777-789	9
1182	SERS Analysis of Bacteria, Human Blood, and Cancer Cells: a Metabolomic and Diagnostic Tool. 2014 , 257-283	9
1181	SERS in Cells: from Concepts to Practical Applications. 2014 , 285-308	5
1180	Improved SERS Intensity from Silver-Coated Black Silicon by Tuning Surface Plasmons. 2014 , 1, 1300008	13
1179	Shell-Isolated Nanoparticle-Enhanced Raman Spectroscopy (SHINERS). 2014 , 163-192	7
1178	Experimental Demonstration of Electromagnetic Mechanism of SERS and Quantitative Analysis of SERS Fluctuation Based on the Mechanism. 2014 , 59-87	2
1177	Target-selective phototherapy using a ligand-based photosensitizer for type 2 cannabinoid receptor. 2014 , 21, 338-44	24
1176	Gold nanoparticles in breast cancer treatment: promise and potential pitfalls. 2014 , 347, 46-53	168
1175	Spectroscopy of scattered light for the characterization of micro and nanoscale objects in biology and medicine. 2014 , 68, 133-54	16
1174	Advances in whole-embryo imaging: a quantitative transition is underway. 2014 , 15, 327-39	76
1173	Chemistry, biology, and medicine of fluorescent nanomaterials and related systems: new insights into biosensing, bioimaging, genomics, diagnostics, and therapy. 2014 , 114, 6130-78	561
1172	Optical Transducers. 2014 , 233-320	2
1171	Investigating the impact of nanoparticle size on active and passive tumor targeting efficiency. 2014 , 8, 5696-706	426
1170	A nanoparticle-based strategy for the imaging of a broad range of tumours by nonlinear amplification of microenvironment signals. 2014 , 13, 204-12	590
1169	Plasmonic nanomaterials for biodiagnostics. 2014 , 43, 3835-53	241

1168	Nanotechnology meets 3D in vitro models: tissue engineered tumors and cancer therapies. 2014 , 34, 270-9		39
1167	Nanoparticles and their applications in cell and molecular biology. 2014 , 6, 9-26		247
1166	Wavelength and shape dependent SERS study to develop ultrasensitive nanotags for imaging of cancer cells. 2014 , 4, 12415		13
1165	Thiol-reactive amphiphilic block copolymer for coating gold nanoparticles with neutral and functional surfaces. 2014 , 5, 2768-2773		14
1164	Biosensors Based on Aptamers and Enzymes. 2014 ,		6
1163	Surface-enhanced Raman Scattering (SERS) in Bioscience: A Review of Application. 2014 , 29-59		1
1162	SERS detection of bacteria in water by in situ coating with Ag nanoparticles. <i>Analytical Chemistry</i> , 2014 , 86, 1525-33	7.8	298
1161	Using well-defined Ag nanocubes as substrates to quantify the spatial resolution and penetration depth of surface-enhanced Raman scattering imaging. 2014 , 25, 014007		11
1160	Nanoscale optical probes for cellular imaging. 2014 , 43, 2650-61		166
1159	Simple SERS substrates: powerful, portable, and full of potential. 2014 , 16, 2224-39		171
1158	Three-dimensional noble-metal nanostructure: A new kind of substrate for sensitive, uniform, and reproducible surface-enhanced Raman scattering. 2014 , 23, 087801		5
1157	Derivatization of Colloidal Gold Nanoparticles Toward Their Application in Life Sciences. 2014 , 66, 153-206		
1156	Physico-Chemical Characteristics of Gold Nanoparticles. 2014 , 66, 81-152		19
1155	Plasmonics in composite nanostructures. 2014 , 17, 372-380		52
1154	Interactions between silver nanoparticles and polyvinyl alcohol nanofibers. 2014 , 4, 087111		23
1153	Preparation of stable gold nanoparticles by using diblock copolymer mixture as encapsulating agent. 2014 , 56, 675-680		
1152	Sensitive multiplex detection of serological liver cancer biomarkers using SERS-active photonic crystal fiber probe. 2014 , 7, 956-65		69
1151	Stress response of <i>Pseudomonas</i> species to silver nanoparticles at the molecular level. 2014 , 33, 2126-32		17

1150	Microwave-assisted synthesis of surface-enhanced Raman scattering nanoprobe for cellular sensing. 2014 , 122, 617-622	7
1149	Elucidation of photophysical changes and orientation of acridine orange dye on the surface of borate capped gold nanoparticles using multi-spectroscopic techniques. 2014 , 13, 1741-52	20
1148	L-cysteine-modified gold nanostars for SERS-based copper ions detection in aqueous media. 2014 , 30, 13491-7	51
1147	Label-free and culture-free microbe detection by three dimensional hot-junctions of flexible Raman-enhancing nanohybrid platelets. 2014 , 2, 1136-1143	26
1146	Protein-directed approaches to functional nanomaterials: a case study of lysozyme. 2014 , 2, 8268-8291	32
1145	A silver nanoparticle embedded hydrogel as a substrate for surface contamination analysis by surface-enhanced Raman scattering. 2014 , 139, 5283-9	31
1144	Hierarchical silver mesoparticles with tunable surface topographies for highly sensitive surface-enhanced Raman spectroscopy. 2014 , 2, 4534-4542	71
1143	Multifunctional plasmonic nanorattles for spectrum-guided locoregional therapy. 2014 , 26, 424-9	36
1142	Physicochemical characterization of nanoparticles and their behavior in the biological environment. 2014 , 16, 15053-67	76
1141	Molecules in the mirror: how SERS backgrounds arise from the quantum method of images. 2014 , 16, 6544-9	22
1140	One-step synthesis of silver nanoshells with bumps for highly sensitive near-IR SERS nanoprobe. 2014 , 2, 4415-4421	46
1139	Creating SERS hot spots on ultralong single-crystal AgVO ₃ microribbons. 2014 , 2, 4051-4056	10
1138	In situ fabrication of 3D Ag@ZnO nanostructures for microfluidic surface-enhanced Raman scattering systems. 2014 , 8, 12175-84	90
1137	Multifunctional Gold Nanocarriers for Cancer Theranostics: From Bench to Bedside and Back Again?. 2014 , 295-328	1
1136	Shedding Light on the Extinction-Enhancement Duality in Gold Nanostar-Enhanced Raman Spectroscopy. 2014 , 126, 14339-14343	13
1135	Self assembly of plasmonic core-satellite nano-assemblies mediated by hyperbranched polymer linkers. 2014 , 2, 2827-2837	50
1134	Carbon nanoparticle-protected aptamers for highly sensitive and selective detection of biomolecules based on nuclease-assisted target recycling signal amplification. 2014 , 50, 7646-8	35
1133	Fabrication of tunable Au SERS nanostructures by a versatile technique and application in detecting sodium cyclamate. 2014 , 4, 22660-22668	14

1132	Single point calibration for semi-quantitative screening based on an internal reference in thin layer chromatography-SERS: the case of Rhodamine B in chili oil. 2014 , 6, 7218-7223	23
1131	Synthesis and Optical Properties of Homogeneous Nanoshurikens. 2014 , 1, 1237-1244	27
1130	Design and fabrication of surface-enhanced Raman scattering substrate from DNA-gold nanoparticles assembly with 2B nm interparticle gap. 2014 , 4, 45207-45213	5
1129	Magnetic imprinted surface enhanced Raman scattering (MI-SERS) based ultrasensitive detection of ciprofloxacin from a mixed sample. 2014 , 6, 1627-1632	32
1128	Ag shell-Au satellite hetero-nanostructure for ultra-sensitive, reproducible, and homogeneous NIR SERS activity. 2014 , 6, 11859-63	41
1127	Gold nanostructures encoded by non-fluorescent small molecules in polyA-mediated nanogaps as universal SERS nanotags for recognizing various bioactive molecules. 2014 , 5, 4460-4466	104
1126	Plasmon Controlled Exciton Fluorescence of Molecular Aggregates. 2014 , 118, 7599-7605	34
1125	Noble Metal Nanoparticle Platform. 2014 , 327-346	6
1124	Novel nitrocellulose membrane substrate for efficient analysis of circulating tumor cells coupled with surface-enhanced Raman scattering imaging. 2014 , 6, 370-6	54
1123	Nanoparticle imaging. Electron microscopy of gold nanoparticles at atomic resolution. 2014 , 345, 909-12	234
1122	Assembly of Polymers/Metal Nanoparticles and their Applications as Medical Devices. 2014 , 343-366	
1121	Non-Enzymatic Remodeling of Fibrin Biopolymers via Photothermally Triggered Radical-Generating Nanoparticles. 2014 , 26, 5120-5130	7
1120	DNA-embedded Au-Ag core-shell nanoparticles assembled on silicon slides as a reliable SERS substrate. 2014 , 139, 2207-13	13
1119	A hybrid protein-polymer nanoworm potentiates apoptosis better than a monoclonal antibody. 2014 , 8, 2064-76	43
1118	Specific detection and simultaneously localized photothermal treatment of cancer cells using layer-by-layer assembled multifunctional nanoparticles. 2014 , 6, 6443-52	27
1117	Determination of resonance Raman cross-sections for use in biological SERS sensing with femtosecond stimulated Raman spectroscopy. <i>Analytical Chemistry</i> , 2014 , 86, 7782-7	7.8 29
1116	Quadrupole-enhanced Raman scattering. 2014 , 8, 9025-34	36
1115	Gold nanoparticles and gold nanoparticle-conjugates for delivery of therapeutic molecules. Progress and challenges. 2014 , 2, 4204-4220	79

1114	Tumor-targeting multifunctional nanoparticles for siRNA delivery: recent advances in cancer therapy. 2014 , 3, 1182-93		55
1113	Gold nanoparticle supported phospholipid membranes as a biomimetic biosensor platform for phosphoinositide signaling detection. 2014 , 62, 113-9		3
1112	Multifunctional hybrid nanopatches of graphene oxide and gold nanostars for ultraefficient photothermal cancer therapy. 2014 , 6, 16395-402		79
1111	Serum-stable quantum dot-protein hybrid nanocapsules for optical bio-imaging. 2014 , 25, 175702		19
1110	Sensitive and fast detection of fructose in complex media via symmetry breaking and signal amplification using surface-enhanced Raman spectroscopy. <i>Analytical Chemistry</i> , 2014 , 86, 2387-94	7.8	83
1109	Massive stars. A chemical signature of first-generation very massive stars. 2014 , 345, 912-5		76
1108	Graphene Oxide-Gold Nanocage Hybrid Platform for Trace Level Identification of Nitro Explosives Using a Raman Fingerprint. 2014 , 118, 7070-7075		28
1107	Development of a rapid capture-cum-detection method for Escherichia coli O157 from apple juice comprising nano-immunomagnetic separation in tandem with surface enhanced Raman scattering. 2014 , 189, 89-97		43
1106	Nanotechnology and its applications to improve the detection of chemical hazards in foods. 2014 , 249-261		
1105	Hyperbranched polymer-gold nanoparticle assemblies: role of polymer architecture in hybrid assembly formation and SERS activity. 2014 , 30, 2249-58		31
1104	Raman Scattering Enhancement of Peg Coated Gold Nanoparticles of Defined Size. 2014 , 81, 411-415		1
1103	Pulsed laser deposited Ag nanoparticles on nickel hydroxide nanosheet arrays for highly sensitive surface-enhanced Raman scattering spectroscopy. 2014 , 316, 66-71		17
1102	Selective SERS detecting of hydrophobic microorganisms by tricomponent nanohybrids of silver-silicate-platelet-surfactant. 2014 , 6, 1541-9		24
1101	Universal surface-enhanced Raman scattering amplification detector for ultrasensitive detection of multiple target analytes. <i>Analytical Chemistry</i> , 2014 , 86, 2205-12	7.8	95
1100	Synergetic approach for simple and rapid conjugation of gold nanoparticles with oligonucleotides. 2014 , 6, 16800-7		39
1099	Surface-enhanced Raman spectroscopy for simultaneous sensitive detection of multiple microRNAs in lung cancer cells. 2014 , 50, 11883-6		71
1098	Alkyne-functionalized superstable graphitic silver nanoparticles for Raman imaging. 2014 , 136, 13558-61		133
1097	Inhibition of cellular toxicity of gold nanoparticles by surface encapsulation of silica shell for hepatocarcinoma cell application. 2014 , 6, 19327-35		14

1096	Design of an Yb-169 source optimized for gold nanoparticle-aided radiation therapy. 2014 , 41, 101709	10
1095	Immunoselective Cellulose Nanospheres: A Versatile Platform for Nanotheranostics. 2014 , 3, 1117-1120	14
1094	Progress in multifunctional surface-enhanced Raman scattering substrate for detection. 2014 , 4, 49635-49646	56
1093	Surface enhanced Raman spectroscopy (SERS): Potential applications for disease detection and treatment. 2014 , 21, 40-53	65
1092	Imaging of epidermal growth factor receptor on single breast cancer cells using surface-enhanced Raman spectroscopy. 2014 , 843, 73-82	23
1091	Nonlinear Optical Properties of Large-Sized Gold Nanorods. 2014 , 9, 1471-1480	12
1090	Improved size-tunable synthesis and SERS properties of Au nanostars. 2014 , 16, 1	29
1089	Metal double layers with sub-10 nm channels. 2014 , 8, 3700-6	23
1088	Diffusion Reflection and Fluorescence Lifetime Imaging Microscopy Study of Fluorophore-Conjugated Gold Nanoparticles or Nanorods in Solid Phantoms. 2014 , 1, 900-905	35
1087	BSA binding to silica capped gold nanostructures: effect of surface cap and conjugation design on nanostructureBSA interface. 2014 , 4, 1412-1420	23
1086	Breakthrough discoveries in drug delivery technologies: the next 30 years. 2014 , 190, 9-14	68
1085	Less is more: long-term in vitro exposure to low levels of silver nanoparticles provides new insights for nanomaterial evaluation. 2014 , 8, 3260-71	77
1084	MGITC facilitated formation of AuNP multimers. 2014 , 30, 8342-9	20
1083	Gold nanoparticles bifunctionalized by chemiluminescence reagent and catalyst metal complexes: synthesis and unique chemiluminescence property. <i>Analytical Chemistry</i> , 2014 , 86, 2857-61	7.8 53
1082	Photochemistry at the Surface of Gold Nanoprisms from Surface-Enhanced Raman Scattering Blinking. 2014 , 118, 17956-17967	28
1081	Detection of high-resolution Raman spectra in short oligonucleotides. 2014 , 99, 373-377	7
1080	High-resolution Raman scattering in oligonucleotides. 2014 , 56, 1273-1275	3
1079	Efficient AuFeOx Nanoclusters of Laser-Ablated Nanoparticles in Water for Cells Guiding and Surface-Enhanced Resonance Raman Scattering Imaging. 2014 , 118, 14534-14541	16

1078	Antitags: SERS-encoded nanoparticle assemblies that enable single-spot multiplex protein detection. 2014 , 26, 1941-6	56
1077	Silicon nanohybrid-based surface-enhanced Raman scattering sensors. 2014 , 10, 4455-68	61
1076	Nanodevices for studying nano-pathophysiology. 2014 , 74, 35-52	24
1075	Chemoselectivity-induced multiple interfaces in MWCNT/Fe ₃ O ₄ @ZnO heterotrimers for whole X-band microwave absorption. 2014 , 6, 12298-302	164
1074	Gold nanoparticles with tipped surface structures as substrates for single-particle surface-enhanced Raman spectroscopy: concave nanocubes, nanotrisoctahedra, and nanostars. 2014 , 6, 17255-67	107
1073	Optimization of positively charged gold nanoparticles synthesized using a stainless-steel mesh and its application for colorimetric hydrogen peroxide detection. 2014 , 20, 2003-2009	16
1072	Charge Balancing of Model Gold-Nanoparticle-Peptide Conjugates Controlled by the Peptide Net Charge and the Ligand to Nanoparticle Ratio. 2014 , 118, 10302-10313	34
1071	On-demand intracellular amplification of chemoradiation with cancer-specific plasmonic nanobubbles. 2014 , 20, 778-784	116
1070	Proximity-dependent isothermal cycle amplification for small-molecule detection based on surface enhanced Raman scattering. 2014 , 51, 304-9	20
1069	Thiol-PEG-carboxyl-stabilized Fe ₃ O ₄ /Au nanoparticles targeted to CD105: synthesis, characterization and application in MR imaging of tumor angiogenesis. 2014 , 83, 1190-1198	22
1068	Focused ultrasound delivery of Raman nanoparticles across the blood-brain barrier: potential for targeting experimental brain tumors. 2014 , 10, 1075-87	64
1067	Robust and Versatile Light Absorption at Near-Infrared Wavelengths by Plasmonic Aluminum Nanorods. 2014 , 1, 538-546	74
1066	Deterministic nanoparticle assemblies: from substrate to solution. 2014 , 25, 155302	4
1065	Massively parallel and highly quantitative single-particle analysis on interactions between nanoparticles on supported lipid bilayer. 2014 , 136, 4081-8	40
1064	Surface engineering of nanoparticles for therapeutic applications. 2014 , 46, 460-468	108
1063	Few-Layer Graphene-Encapsulated Metal Nanoparticles for Surface-Enhanced Raman Spectroscopy. 2014 , 118, 8993-8998	101
1062	Nanofabricated SERS-active substrates for single-molecule to virus detection in vitro: a review. 2014 , 61, 232-40	219
1061	Mesoporous silica-coated plasmonic nanostructures for surface-enhanced Raman scattering detection and photothermal therapy. 2014 , 3, 1620-8	61

1060	The optical, photothermal, and facile surface chemical properties of gold and silver nanoparticles in biodiagnostics, therapy, and drug delivery. 2014 , 88, 1391-417	279
1059	A General Perspective of the Characterization and Quantification of Nanoparticles: Imaging, Spectroscopic, and Separation Techniques. 2014 , 39, 423-458	59
1058	Controlled production of poly (3-hydroxybutyrate-co-3-hydroxyhexanoate) (PHBHHx) nanoparticles for targeted and sustained drug delivery. 2014 , 103, 2498-508	14
1057	Competitive reaction pathway for site-selective conjugation of Raman dyes to hotspots on gold nanorods for greatly enhanced SERS performance. 2014 , 10, 4012-9	16
1056	Enhancing therapeutic efficacy through designed aggregation of nanoparticles. 2014 , 35, 7860-9	31
1055	Novel Optical Nanoprobes for Chemical and Biological Analysis. 2014 ,	4
1054	The nanotoxicity investigation of optical nanoparticles to cultured cells in vitro. 2014 , 1, 137-144	27
1053	Indium-111 labeled gold nanoparticles for in-vivo molecular targeting. 2014 , 35, 7050-7	31
1052	Capture and detection of cancer cells in whole blood with magnetic-optical nanoovals. 2014 , 9, 593-606	31
1051	Manufacturing nanomaterials: from research to industry. 2014 , 1, 11	124
1050	Assembly of Polymers/Metal Nanoparticles and their Applications as Medical Devices. 2014 , 37-61	
1049	Synthesis of Colloidal Gold and Silver Nanoparticles and their Properties. 2014 , 1-22	1
1048	Highly Specific Electrochemical Analysis of Cancer Cells using Multi-Nanoparticle Labeling. 2014 , 126, 13361-13365	20
1047	Localized fields, global impact: Industrial applications of resonant plasmonic materials. 2015 , 40, 1138-1145	19
1046	Rough surface Au@Ag core-shell nanoparticles to fabricating high sensitivity SERS immunochromatographic sensors. 2015 , 13, 81	34
1045	Self-assembly of Au nanoparticle arrays by porous anodic alumina templates leads to surface-enhanced Raman scattering. 2015 , 19, S1-286-S1-289	
1044	Monitoring of Endogenous Hydrogen Sulfide in Living Cells Using Surface-Enhanced Raman Scattering. 2015 , 54, 12758-61	100
1043	Nanoparticle uptake by macrophages in vulnerable plaques for atherosclerosis diagnosis. 2015 , 8, 871-83	25

1042	Optical Contrast Agents for Imaging, Biosensing, and Therapy. 2015 , 1-19	
1041	A facile and general route to synthesize silica-coated SERS tags with the enhanced signal intensity. 2015 , 5, 14934	16
1040	Complementary layer pairs of plasmonic ladder-like structured films: Fabrication and visible-near-infrared properties. 2015 , 118, 063104	5
1039	Monitoring of Endogenous Hydrogen Sulfide in Living Cells Using Surface-Enhanced Raman Scattering. 2015 , 127, 12949-12952	14
1038	Bioorthogonal SERS Nanoprobes for Multiplex Spectroscopic Detection, Tumor Cell Targeting, and Tissue Imaging. 2015 , 21, 12914-8	27
1037	Gold-based SERS tags for biomedical imaging. 2015 , 17, 114002	59
1036	Bio-Enabled Gold Superstructures with Built-In and Accessible Electromagnetic Hotspots. 2015 , 4, 1502-9, 1423	16
1035	Classification of blood cells and tumor cells using label-free ultrasound and photoacoustics. 2015 , 87, 741-9	23
1034	Plasmonic Lipid Bilayer Membranes for Enhanced Detection Sensitivity of Biolabeling Fluorophores. 2015 , 25, 7233-7242	5
1033	SERS-based quantitative detection of ovarian cancer prognostic factor haptoglobin. 2015 , 10, 1831-40	21
1032	GOLD NANOPARTICLES IN BIOMEDICAL APPLICATIONS. 2015 , 6, 693-702	0
1031	On the Interaction between a Nanoparticulate System and the Human Body in Body Area Nanonetworks. 2015 , 6, 1213-1235	5
1030	Theranostic Approach for Cancer Treatment: Multifunctional Gold Nanorods for Optical Imaging and Photothermal Therapy. 2015 , 2015, 1-7	28
1029	Nanoparticle properties and synthesis effects on surface-enhanced Raman scattering enhancement factor: an introduction. 2015 , 2015, 124582	80
1028	. 2015 ,	3
1027	Electrophoretic fabrication of silver nanostructure/zinc oxide nanorod heterogeneous arrays with excellent SERS performance. 2015 , 3, 1724-1731	12
1026	Graphene-based nanomaterials for versatile imaging studies. 2015 , 44, 4835-52	154
1025	A PEGylation-Free Biomimetic Porphyrin Nanoplatform for Personalized Cancer Theranostics. 2015 , 9, 4484-95	133

1024	Plasmonic Nanostructures for Biomedical and Sensing Applications. 2015 , 133-173	3
1023	Carbon Nanomaterials for Biological Imaging and Nanomedicinal Therapy. 2015 , 115, 10816-906	902
1022	X-ray scattering characterisation of nanoparticles. 2015 , 21, 229-303	99
1021	Surface-Enhanced Raman Scattering-Based Bioimaging. 2015 , 325-346	
1020	Pandia . 2015 , 347-372	2
1019	Design and Development of Theranostic Nanomedicines. 2015 , 429-465	
1018	Biomedical applications of gold nanomaterials: opportunities and challenges. 2015 , 7, 779-96	48
1017	Systematic in vitro toxicological screening of gold nanoparticles designed for nanomedicine applications. 2015 , 29, 1445-53	53
1016	Recent advances in SPR and SERS for sensitive translational medical diagnostics. 2015 , 4,	5
1015	Graphene oxide-encoded Ag nanoshells with single-particle detection sensitivity towards cancer cell imaging based on SERRS. 2015 , 140, 3362-7	13
1014	Highly sensitive DNA methylation analysis at CpG resolution by surface-enhanced Raman scattering via ligase chain reaction. 2015 , 51, 10953-6	42
1013	Suspension arrays based on nanoparticle-encoded microspheres for high-throughput multiplexed detection. 2015 , 44, 5552-95	169
1012	Potent selective inhibition of MMP-14 by chloroauric acid and its inhibitory effect on cancer cell invasion. 2015 , 5, 17700-17708	1
1011	An ultra-sensitive dual-mode imaging system using metal-enhanced fluorescence in solid phantoms. 2015 , 8, 3912-3921	26
1010	AMP-Conjugated Quantum Dots: Low Immunotoxicity Both In Vitro and In Vivo. 2015 , 10, 434	7
1009	CCR 20th Anniversary Commentary: Prospects and Challenges of Therapeutic Nanoparticles in Cancer. 2015 , 21, 4499-501	3
1008	Optimizing gold nanostars as a colloid-based surface-enhanced Raman scattering (SERS) substrate. 2015 , 17, 114013	36
1007	Enhancement mechanism of fluorescence intensity in presence of plasmonic nanoparticles. 2015 ,	1

1006	Au/Ag bimetal nanogap arrays with tunable morphologies for surface-enhanced Raman scattering. 2015 , 5, 7454-7460		17
1005	Tunable SERS-tags-hidden gold nanorattles for theranosis of cancer cells with single laser beam. 2014 , 4, 6709		19
1004	Gold nanostars as SERS-active substrates for FT-Raman spectroscopy. 2015 , 5, 8523-8532		8
1003	Release, transport and toxicity of engineered nanoparticles. 2015 , 234, 1-47		24
1002	Wide-field multiplexed imaging of EGFR-targeted cancers using topical application of NIR SERS nanoprobes. 2015 , 10, 89-101		35
1001	Shape-Dependent Targeting of Injured Blood Vessels by Peptide Amphiphile Supramolecular Nanostructures. 2015 , 11, 2750-5		65
1000	Detection of Cancer Biomarkers on Biosensor Surfaces. 2015 , 43-108		0
999	Synthesis of size-tunable chitosan encapsulated gold-silver nanoflowers and their application in SERS imaging of living cells. 2015 , 17, 21261-7		31
998	Extreme red shifted SERS nanotags. 2015 , 6, 2302-2306		37
997	Universal One-Pot and Scalable Synthesis of SERS Encoded Nanoparticles. 2015 , 27, 950-958		81
996	In situ surface-enhanced Raman scattering spectroscopy exploring molecular changes of drug-treated cancer cell nucleus. <i>Analytical Chemistry</i> , 2015 , 87, 2504-10	7.8	49
995	A high yield, controllable process for producing tunable near infrared-absorbing gold nanoplates. 2015 , 5, 12498-12505		8
994	Magnetically optimized SERS assay for rapid detection of trace drug-related biomarkers in saliva and fingerprints. 2015 , 68, 350-357		61
993	(Intra)cellular stability of inorganic nanoparticles: effects on cytotoxicity, particle functionality, and biomedical applications. 2015 , 115, 2109-35		348
992	Prospects for plasmonic hot spots in single molecule SERS towards the chemical imaging of live cells. 2015 , 17, 21072-93		197
991	Fabrication of long-range ordered, broccoli-like SERS arrays and application in detecting endocrine disrupting chemicals. 2015 , 3, 1309-1318		36
990	Glycoprofiling of cancer biomarkers: Label-free electrochemical lectin-based biosensors. 2015 , 13, 636-655		43
989	Plasmonic core-shell nanoparticles for SERS detection of the pesticide thiram: size- and shape-dependent Raman enhancement. 2015 , 7, 2862-8		122

988	An integrated widefield imaging and spectroscopy system for contrast-enhanced, image-guided resection of tumors. 2015 , 62, 1416-24	17
987	Light-Tunable Plasmonic Nanoarchitectures Using Gold Nanoparticle-Azobenzene-Containing Cationic Surfactant Complexes. 2015 , 119, 3762-3770	26
986	CTAB micelles assisted rGO-AgNP hybrids for SERS detection of polycyclic aromatic hydrocarbons. 2015 , 17, 21158-63	16
985	Principles of Nanotechnology. 2015 , 67-85	
984	Size-controlled synthesis of Pd nanosheets for tunable plasmonic properties. 2015 , 17, 1833-1838	63
983	Applications of shell-isolated nanoparticles in surface-enhanced Raman spectroscopy and fluorescence. 2015 , 66, 103-117	32
982	Rapid detection and destruction of squamous cell carcinoma of the head and neck by nano-quadrapeutics. 2015 , 37, 1547-55	4
981	Rapid determination of plasmonic nanoparticle agglomeration status in blood. 2015 , 51, 226-237	32
980	New insight of squaraine-based biocompatible surface-enhanced Raman scattering nanotag for cancer-cell imaging. 2015 , 10, 561-71	17
979	MnO ₂ /Au hybrid nanowall film for high-performance surface-enhanced Raman scattering substrate. 2015 , 333, 78-85	11
978	Single Molecule with Dual Function on Nanogold: Biofunctionalized Construct for In Vivo Photoacoustic Imaging and SERS Biosensing. 2015 , 25, 2316-2325	52
977	No king without a crown--impact of the nanomaterial-protein corona on nanobiomedicine. 2015 , 10, 503-19	81
976	Gold nanorods in photomedicine. 2015 , 221-248	1
975	Equilibrium Morphology of Plasmonic Au/Polystyrene Dimeric Nanoparticle. 2015 , 119, 6148-6151	4
974	Anisotropic Gold Nanoparticles: Preparation, Properties, and Applications. 2015 , 69-118	2
973	Gold Nanoframes by Nonepitaxial Growth of Au on AgI Nanocrystals for Surface-Enhanced Raman Spectroscopy. 2015 , 15, 4448-54	70
972	Polyethylenimine-interlayered silver-shell magnetic-core microspheres as multifunctional SERS substrates. 2015 , 3, 8684-8693	44
971	Understanding and exploiting nanoparticles' intimacy with the blood vessel and blood. 2015 , 44, 8174-99	230

970	Off-Resonant Gold Superstructures as Ultrabright Minimally Invasive Surface-Enhanced Raman Scattering (SERS) Probes. 2015 , 27, 5678-5684	34
969	In vitro colocalization of plasmonic nano-biolabels and biomolecules using plasmonic and Raman scattering microspectroscopy. 2015 , 20, 046011	7
968	Perylene Derivatives As Useful SERRS Reporters, Including Multiplexing Analysis. 2015 , 7, 28042-8	10
967	The bio-corona and its impact on nanomaterial toxicity. 2015 , 7,	23
966	Molecular Dynamics Simulations Using a Capacitance Polarizability Force Field. 2015 , 119, 19430-19437	8
965	In vitro study of a pH-sensitive multifunctional doxorubicin-gold nanoparticle system: therapeutic effect and surface enhanced Raman scattering. 2015 , 5, 65651-65659	37
964	Physical Principles of Nanoparticle Cellular Endocytosis. 2015 , 9, 8655-71	637
963	Biomedicine with surface enhanced Raman scattering (SERS). 2015 , 101-134	1
962	Use of epidermal growth factor receptor antibody-gold cluster conjugates with good renal excretion in targeted cancer radiation treatment. 2015 , 3, 4735-4741	12
961	Fabrication of ordered mullite nanowhisker array with surface enhanced Raman scattering effect. 2015 , 5, 9690	9
960	Plasmonic Vesicles of Amphiphilic Nanocrystals: Optically Active Multifunctional Platform for Cancer Diagnosis and Therapy. 2015 , 48, 2506-15	137
959	Extraordinarily Large Optical Cross Section for Localized Single Nanoresonator. 2015 , 115, 023903	27
958	Editorial: Turning fluorescence into black and white. 2015 , 122, 1356-8	3
957	Passive tumor targeting and imaging by using mercaptosuccinic acid-coated near-infrared quantum dots. 2015 , 10, 335-45	18
956	Determination of the Surface Charge Density of Colloidal Gold Nanoparticles Using Second Harmonic Generation. 2015 , 119, 16200-16207	42
955	Phage-AgNPs complex as SERS probe for U937 cell identification. 2015 , 74, 398-405	29
954	SERS enhancement of silver nanoparticles prepared by a template-directed triazole ligand strategy. 2015 , 51, 13028-31	6
953	Sensing using plasmonic nanostructures and nanoparticles. 2015 , 26, 322001	169

952	Engineered Materials for Cancer Immunotherapy. 2015 , 10, 511-531	76
951	Enhanced Photothermal Effects and Excited-State Dynamics of Plasmonic Size-Controlled Gold/Silver Core/Shell Nanoparticles. 2015 , 119, 18573-18580	26
950	Reformulating Tylocerbrine in Epidermal Growth Factor Receptor Targeted Polymeric Nanoparticles Improves Its Therapeutic Index. 2015 , 12, 2912-23	7
949	Raman Characterization of Nanoparticle Transport in Microfluidic Paper-Based Analytical Devices (PADs). 2015 , 7, 9139-46	21
948	Nano material-Involved Optical Imaging/Spectroscopy Methods for Single-Molecule Detections in Biomedicine. 2015 , 135-156	
947	Modern qualitative analysis by miniaturized and microfluidic systems. 2015 , 69, 105-113	25
946	Recent progress in biomedical applications of Pluronic (PF127): Pharmaceutical perspectives. 2015 , 209, 120-38	200
945	Raman Imaging from Microscopy to Nanoscopy, and to Macroscopy. 2015 , 11, 3395-406	23
944	Explosive and chemical threat detection by surface-enhanced Raman scattering: a review. 2015 , 893, 1-13	205
943	Molecular Orientation and Optical Properties of 3,3'-Diethylthiatricarbocyanine Iodide Adsorbed to Gold Surfaces: Consequences for Surface-Enhanced Resonance Raman Spectroscopy. 2015 , 119, 9980-9987	12
942	Surface-enhanced Raman imaging of cell membrane by a highly homogeneous and isotropic silver nanostructure. 2015 , 7, 8593-606	50
941	Measuring binding kinetics of aromatic thiolated molecules with nanoparticles via surface-enhanced Raman spectroscopy. 2015 , 7, 8766-75	26
940	Improved SERS Nanoparticles for Direct Detection of Circulating Tumor Cells in the Blood. 2015 , 7, 9965-71	101
939	Silica-coated gold nanostars for surface-enhanced resonance Raman spectroscopy mapping of integrins in breast cancer cells. 2015 ,	3
938	Multifunctional gold nanostar-based nanocomposite: Synthesis and application for noninvasive MR-SERS imaging-guided photothermal ablation. 2015 , 60, 31-41	82
937	Hybrid nanostructures for SERS: materials development and chemical detection. 2015 , 17, 21046-71	123
936	Mechanisms of nanosilver-induced toxicological effects: more attention should be paid to its sublethal effects. 2015 , 7, 7470-81	93
935	Plasmonic colloidal nanoparticles with open eccentric cavities via acid-induced chemical transformation. 2015 , 7, e167-e167	5

934	Dye-free near-infrared surface-enhanced Raman scattering nanoprobes for bioimaging and high-performance photothermal cancer therapy. 2015 , 7, 6754-61	40
933	SERS-based approaches toward genetic profiling. 2015 , 7, 263-78	11
932	Nanomedicine to overcome radioresistance in glioblastoma stem-like cells and surviving clones. 2015 , 36, 236-52	35
931	Plasmonics in atomically thin materials. 2015 , 178, 87-107	31
930	Dimer-on-mirror SERS substrates with attogram sensitivity fabricated by colloidal lithography. 2015 , 7, 9405-10	89
929	Real-time in vivo visualization of tumor therapy by a near-infrared-II Ag ₂ S quantum dot-based theranostic nanoplatfrom. 2015 , 8, 1637-1647	98
928	Aggregation of nanoparticles in endosomes and lysosomes produces surface-enhanced Raman spectroscopy. 2015 , 9, 093094	7
927	Enhancement and extinction effects in surface-enhanced stimulated Raman spectroscopy. 2015 , 17, 21348-55	9
926	Gold-graphene nanocomposites for sensing and biomedical applications. 2015 , 3, 4301-4324	119
925	Au@pNIPAM SERRS Tags for Multiplex Immunophenotyping Cellular Receptors and Imaging Tumor Cells. 2015 , 11, 4149-57	57
924	Surface- and tip-enhanced Raman spectroscopy reveals spin-waves in iron oxide nanoparticles. 2015 , 7, 9545-51	36
923	Rational design of a chalcogenopyrylium-based surface-enhanced resonance Raman scattering nanoprobe with attomolar sensitivity. 2015 , 6, 6570	89
922	Engineering of SERS Substrates Based on Noble Metal Nanomaterials for Chemical and Biomedical Applications. 2015 , 50, 499-525	62
921	Next-generation thermo-plasmonic technologies and plasmonic nanoparticles in optoelectronics. 2015 , 41, 23-70	45
920	Surface-enhanced Raman scattering (SERS)-active gold nanochains for multiplex detection and photodynamic therapy of cancer. 2015 , 20, 155-164	28
919	Noble Metal Nanomaterials: Synthetic Routes, Fundamental Properties, and Promising Applications. 2015 , 66, 131-211	12
918	Cell surface-based sensing with metallic nanoparticles. 2015 , 44, 4264-4274	69
917	Hybrid Au@SiO ₂ Core@Satellite Colloids as Switchable SERS Tags. 2015 , 27, 2540-2545	48

916	A green method for the preparation of fluorescent hybrid structures of gold and corrole. 2015 , 17, 1	2
915	Gold Nanoparticles: Synthesis and Biological Applications. 2015 , 05, 1542007	16
914	Control of localized surface plasmon resonance energy in monolayer structures of gold and silver nanoparticles. 2015 , 17, 27077-81	9
913	The advances in applying inorganic fluorescent nanomaterials for the detection of hepatocellular carcinoma and other cancers. 2015 , 5, 79572-79584	9
912	Bio-Conjugated Gold Nanoparticle Based SERS Probe for Ultrasensitive Identification of Mosquito-Borne Viruses Using Raman Fingerprinting. 2015 , 119, 23669-23775	50
911	Surface-enhanced Raman scattering imaging of cancer cells and tissues via sialic acid-imprinted nanotags. 2015 , 51, 17696-9	108
910	Co-titration of AgNO ₃ and HAuCl ₄ : a new route to the synthesis of Ag@Ag ₂ Au core/shell nanocubes with enhanced plasmonic and catalytic properties. 2015 , 3, 11833-11841	33
909	Molten salt synthesis of mullite nanowhiskers using different silica sources. 2015 , 22, 884-891	9
908	Rational Design and Synthesis of Fe ₂ O ₃ @Au Magnetic Gold Nanoflowers for Efficient Cancer Theranostics. 2015 , 27, 5049-56	117
907	Surface-Enhanced Raman Scattering Based on Controllable-Layer Graphene Shells Directly Synthesized on Cu Nanoparticles for Molecular Detection. 2015 , 16, 2953-60	19
906	Polyethylenimine-interlayered core-shell-satellite 3D magnetic microspheres as versatile SERS substrates. 2015 , 7, 18694-707	54
905	Gold Nanomaterials at Work in Biomedicine. 2015 , 115, 10410-88	818
904	Controllable synthesis of tetrapod gold nanocrystals with precisely tunable near-infrared plasmon resonance towards highly efficient surface enhanced Raman spectroscopy bioimaging. 2015 , 3, 7377-7385	26
903	Carbohydrate nanocarriers in biomedical applications: functionalization and construction. 2015 , 44, 8301-25	154
902	A challenge for theranostics: is the optimal particle for therapy also optimal for diagnostics?. 2015 , 7, 15175-84	51
901	An unusual role of folate in the self-assembly of heparin-folate conjugates into nanoparticles. 2015 , 7, 15185-90	20
900	SERS Nanoparticles in Medicine: From Label-Free Detection to Spectroscopic Tagging. 2015 , 115, 10489-529	576
899	Highly selective detection of carbon monoxide in living cells by palladacycle carbonylation-based surface enhanced Raman spectroscopy nanosensors. <i>Analytical Chemistry</i> , 2015 , 87, 9696-701	7.8 81

898	Monitoring the Photocleaving Dynamics of Colloidal MicroRNA-Functionalized Gold Nanoparticles Using Second Harmonic Generation. 2015 , 31, 9983-90	13
897	Chemical Control over Cellular Uptake of Organic Nanoparticles by Fine Tuning Surface Functional Groups. 2015 , 9, 10227-36	41
896	Pd-Ir Core-Shell Nanocubes: A Type of Highly Efficient and Versatile Peroxidase Mimic. 2015 , 9, 9994-10004	198
895	Nitrogen-doped graphene network supported copper nanoparticles encapsulated with graphene shells for surface-enhanced Raman scattering. 2015 , 7, 17079-87	25
894	Insulin-coated gold nanoparticles as a new concept for personalized and adjustable glucose regulation. 2015 , 7, 20489-96	26
893	Surface Enhanced Raman Spectroscopy Sensor Based on Magnetic Beads-induced Nanoparticles Aggregation for Detection of Bacterial Deoxyribonucleic Acid. 2015 , 43, 1676-1681	8
892	Preparation of sensitive and recyclable porous Ag/TiO ₂ composite films for SERS detection. 2015 , 359, 853-859	25
891	Nonidentical intracellular drug release rates in Raman and fluorescence spectroscopic determination. 2015 , 17, 3019-23	10
890	Carbon nanomaterials combined with metal nanoparticles for theranostic applications. 2015 , 172, 975-91	65
889	Fabrication of graphene-isolated-Au-nanocrystal nanostructures for multimodal cell imaging and photothermal-enhanced chemotherapy. 2014 , 4, 6093	83
888	Biodistribution and in vivo toxicity of aptamer-loaded gold nanostars. 2015 , 11, 671-9	62
887	Circulating tumor cell identification by functionalized silver-gold nanorods with multicolor, super-enhanced SERS and photothermal resonances. 2014 , 4, 4752	151
886	Sea-urchin-like Au nanocluster with surface-enhanced raman scattering in detecting epidermal growth factor receptor (EGFR) mutation status of malignant pleural effusion. 2015 , 7, 359-69	28
885	Plasmon-enhanced optical sensors: a review. 2015 , 140, 386-406	584
884	SERS-based pesticide detection by using nanofinger sensors. 2015 , 26, 015502	63
883	Gold nanorod biochip functionalization by antibody thiolation. 2015 , 136, 1-8	24
882	Multiplex plasmonic anti-counterfeiting security labels based on surface-enhanced Raman scattering. 2015 , 51, 5363-6	74
881	Three-dimensional plasmonic hydrogel architecture: facile synthesis and its macroscale effective space. 2015 , 5, 2231-2238	10

880	Actively targeted in vivo multiplex detection of intrinsic cancer biomarkers using biocompatible SERS nanotags. 2014 , 4, 4075	131
879	Metallic Nanostructures. 2015 ,	11
878	Plasmonic biosensors. 2015 , 7, 152-68	76
877	Advances in Image-Guided Urologic Surgery. 2015 ,	3
876	Reviews of Environmental Contamination and Toxicology. 2015 ,	3
875	Bio-inspired development of a dual-mode nanoprobe for MRI and Raman imaging. 2015 , 11, 84-9	36
874	Size-dependent clearance of gold nanoparticles from lungs of Sprague-Dawley rats after short-term inhalation exposure. 2015 , 89, 1083-94	53
873	Application of gold nanoparticles in biomedical and drug delivery. 2016 , 44, 410-22	291
872	Drug delivery and nanodetection in lung cancer. 2016 , 44, 618-34	16
871	Surface-Enhanced Raman Spectroscopy for Intradermal Measurements. 2016 , 141-154	2
870	Nanocolloids of Noble Metals. 2016 , 37-73	
869	Development of nanostars as a biocompatible tumor contrast agent: toward in vivo SERS imaging. 2016 , 11, 3703-14	27
868	Gold Nanoparticles: Their Properties and Role as Therapeutic Anticancer Agents. 2016 , 647-666	1
867	Rapid Biosynthesis of Gold Nanoparticles by the Extracellular Secretion of <i>Bacillus niabensis</i> 45: Characterization and Antibiofilm Activity. 2016 , 2016, 1-7	11
866	The Extraordinary Progress in Very Early Cancer Diagnosis and Personalized Therapy: The Role of Oncomarkers and Nanotechnology. 2016 , 2016, 1-18	9
865	3D Plasmonic Ensembles of Graphene Oxide and Nobel Metal Nanoparticles with Ultrahigh SERS Activity and Sensitivity. 2016 , 2016, 1-8	2
864	Lipid Reconstitution-Enabled Formation of Gold Nanoparticle Clusters for Mimetic Cellular Membrane. 2016 , 2016, 1-7	2
863	Scientometric Overview in Nanobiodrugs. 2016 , 405-428	4

862	Influence of a three-dimensional photonic crystal on the plasmonic properties of gold nanorods. 2016 , 24, 14124-37		2
861	Intraoperative Fluorescence Imaging for Personalized Brain Tumor Resection: Current State and Future Directions. 2016 , 3, 55		74
860	Micro and nanocapsules as supports for Surface-Enhanced Raman Spectroscopy (SERS). 2016 , 1,		
859	Gold nanoparticles enhance anti-tumor effect of radiotherapy to hypoxic tumor. 2016 , 34, 230-238		21
858	SERS Tags: The Next Promising Tool for Personalized Cancer Detection?. 2016 , 2, 249-258		63
857	Targeting cancer cells in the tumor microenvironment: opportunities and challenges in combinatorial nanomedicine. 2016 , 8, 208-22		28
856	Dimerization of Organic Dyes on Luminescent Gold Nanoparticles for Ratiometric pH Sensing. 2016 , 128, 2467-2470		16
855	A pH dependent Raman and surface enhanced Raman spectroscopic studies of citrazinic acid aided by theoretical calculations. 2016 , 169, 108-15		12
854	Dimerization of Organic Dyes on Luminescent Gold Nanoparticles for Ratiometric pH Sensing. 2016 , 55, 2421-4		38
853	Surface-Enhanced Raman Scattering Active Plasmonic Nanoparticles with Ultrasmall Interior Nanogap for Multiplex Quantitative Detection and Cancer Cell Imaging. <i>Analytical Chemistry</i> , 2016 , 88, 7828-36	7.8	63
852	Raman spectroscopy as a diagnostic tool for monitoring acute nephritis. 2016 , 9, 260-9		9
851	Tuning Optical Properties of Encapsulated Clusters of Gold Nanoparticles through Stimuli-Triggered Controlled Aggregation. 2016 , 22, 7702-5		5
850	Synthesis of nanoparticles composed of silver and silver chloride for a plasmonic photocatalyst using an extract from a weed <i>Solidago altissima</i> (goldenrod). 2016 , 7, 015002		32
849	Efficient nucleic acid delivery to murine regulatory T cells by gold nanoparticle conjugates. 2016 , 6, 28709		24
848	A hybrid system with highly enhanced graphene SERS for rapid and tag-free tumor cells detection. 2016 , 6, 25134		37
847	Current achievements of nanoparticle applications in developing optical sensing and imaging techniques. 2016 , 3, 30		31
846	Advances in Biofunctional SERS-Active Nanoparticles for Future Clinical Diagnostics and Therapeutics. 2016 , 131-161		1
845	Near-Infrared Excited Surface-Enhanced Raman and Hyper Raman Scattering for Microscopic Mapping of Biosamples. 2016 , 181-200		

844	Plasmonic Nanoparticles with Quantitatively Controlled Bioconjugation for Photoacoustic Imaging of Live Cancer Cells. 2016 , 3, 1600237	26
843	Quantitative imaging of gold nanoparticle distribution in a tumor-bearing mouse using benchtop x-ray fluorescence computed tomography. 2016 , 6, 22079	81
842	Surface-Enhanced Raman Scattering of Biological Materials. 2016 , 1-29	2
841	Multiplexed Imaging of Trace Residues in a Single Latent Fingerprint. <i>Analytical Chemistry</i> , 2016 , 88, 12502-12507	12502
840	Label-free Imaging and Characterization of Cancer Cell Responses to Polymethoxyflavones Using Raman Microscopy. 2016 , 64, 9708-9713	6
839	Biomedical Applications of Multifunctional Gold-Based Nanocomposites. 2016 , 81, 1771-1789	15
838	Advancement and applications of peptide phage display technology in biomedical science. 2016 , 23, 8	165
837	Synthesis of Water-Soluble, Thiolate-Protected Gold Nanoparticles Uniform in Size. 2016 , 16, 3348-51	54
836	Tunable and amplified Raman gold nanoprobe for effective tracking (TARGET): in vivo sensing and imaging. 2016 , 8, 8486-94	24
835	Raman spectroscopy: an evolving technique for live cell studies. 2016 , 141, 3590-600	170
834	Reporter nanoparticle that monitors its anticancer efficacy in real time. 2016 , 113, E2104-13	52
833	Spectral triangulation: a 3D method for locating single-walled carbon nanotubes in vivo. 2016 , 8, 10348-57	16
832	Numerical study on the mechanisms of the SERS of gold-coated pyramidal tip substrates. 2016 , 28, 254004	4
831	Novel green and red autofluorescent protein nanoparticles for cell imaging and in vivo biodegradation imaging and modeling. 2016 , 6, 50091-50099	10
830	Gold Nanoparticle Coated Carbon Nanotube Ring with Enhanced Raman Scattering and Photothermal Conversion Property for Theranostic Applications. 2016 , 138, 7005-15	160
829	Potential use of SERS-assisted theranostic strategy based on Fe ₃ O ₄ /Au cluster/shell nanocomposites for bio-detection, MRI, and magnetic hyperthermia. 2016 , 64, 199-207	32
828	Polymer nanopillar array with Au nanoparticle inlays as a flexible and transparent SERS substrate. 2016 , 6, 35527-35531	18
827	Covalent conjugation of cysteine-engineered scFv to PEGylated magnetic nanoprobe for immunotargeting of breast cancer cells. 2016 , 6, 37099-37109	14

826	Elucidating the cellular uptake mechanism of aptamer-functionalized graphene-isolated-Au-nanocrystals with dual-modal imaging. 2016 , 141, 3337-42		12
825	Gold Nanoparticle (AuNP)-Based Surface-Enhanced Raman Scattering (SERS) Probe of Leukemic Lymphocytes. 2016 , 11, 1361-1368		20
824	Magnetic immunoassay for cancer biomarker detection based on surface-enhanced resonance Raman scattering from coupled plasmonic nanostructures. 2016 , 84, 15-21		52
823	Highly Sensitive Detection of Hormone Estradiol E2 Using Surface-Enhanced Raman Scattering Based Immunoassays for the Clinical Diagnosis of Precocious Puberty. 2016 , 8, 10665-72		57
822	Highly stable SERS pH nanoprobe produced by co-solvent controlled AuNP aggregation. 2016 , 141, 5159-69		39
821	Nanostructured SERS substrates produced by nanosphere lithography and plastic deformation through direct peel-off on soft matter. 2016 , 18, 055006		26
820	Early apoptosis real-time detection by label-free SERS based on externalized phosphatidylserine. 2016 , 141, 4293-8		21
819	3D plasmonic transducer based on gold nanoparticles produced by laser ablation on silica nanowires. 2016 , 122, 1		2
818	SERS nanoprobe for the monitoring of endogenous nitric oxide in living cells. 2016 , 85, 324-330		46
817	PEGylated Artificial Antibodies: Plasmonic Biosensors with Improved Selectivity. 2016 , 8, 23509-16		34
816	Gold nanoparticle-conjugated pepsin for efficient solution-like heterogeneous biocatalysis in analytical sample preparation protocols. 2016 , 408, 5415-27		18
815	Surface Enhanced Raman Scattering Encoded Gold Nanostars for Multiplexed Cell Discrimination. 2016 , 28, 6779-6790		121
814	A Single Nanoprobe for Ratiometric Imaging and Biosensing of Hypochlorite and Glutathione in Live Cells Using Surface-Enhanced Raman Scattering. <i>Analytical Chemistry</i> , 2016 , 88, 9518-9523	7.8	76
813	Split-GFP: SERS Enhancers in Plasmonic Nanocluster Probes. 2016 , 12, 5891-5901		18
812	Spatial distributions of dose enhancement around a gold nanoparticle at several depths of proton Bragg peak. 2016 , 384, 113-120		5
811	Advances in Nanomedicine for Head and Neck Cancer. 2016 , 827-844		3
810	Precisely Controllable Core-Shell Ag@Carbon Dots Nanoparticles: Application to in Situ Super-Sensitive Monitoring of Catalytic Reactions. 2016 , 8, 27956-27965		75
809	Novel surface-enhanced Raman scattering-based assays for ultra-sensitive detection of human pluripotent stem cells. 2016 , 105, 66-76		23

808	Holey Au-Ag alloy nanoplates with built-in hotspots for surface-enhanced Raman scattering. 2016 , 8, 15689-95	37
807	Fluorescence Spectroscopy. 2016 , 237-252	
806	Photodynamic Therapy. 2016 , 753-770	2
805	Smart Materials for Controlled Drug Release. 2016 , 98-135	
804	High Raman-to-fluorescence ratio of Rhodamine 6G excited with 532 nm laser wavelength using a closely packed, self-assembled monolayer of silver nanoparticles. 2016 , 55, 6125-9	3
803	Electrical Detection of Single Graphene Plasmons. 2016 , 10, 8045-53	13
802	Plasmons in doped finite carbon nanotubes and their interactions with fast electrons and quantum emitters. 2016 , 94,	8
801	Manipulating light-matter interaction in a gold nanorod assembly by plasmonic coupling. 2016 , 10, 826-834	16
800	Neuron-like gold-palladium alloy nanostructures: Rapid synthesis and applications in electrocatalysis and surface-enhanced Raman scattering. 2016 , 482, 73-80	11
799	The Astrobiology Primer v2.0. 2016 , 16, 561-653	92
798	Quantitative molecular phenotyping with topically applied SERS nanoparticles for intraoperative guidance of breast cancer lumpectomy. 2016 , 6, 21242	76
797	Nanomaterials as Therapeutic/Imaging Agent Delivery Vehicles for Tumor Targeting Theranostics. 2016 , 1-42	
796	Surface Enhanced Raman Scattering (SERS) Nanoprobes as Cancer Theranostics. 2016 , 177-204	
795	Diethyldithiocarbamate (DDTC) induced formation of positively charged silver nanoparticles for rapid in situ identification of inorganic explosives by surface enhanced Raman spectroscopy. 2016 , 6, 51823-51829	12
794	Techniques for cervical cancer screening and diagnosis. 2016 , 345-375	2
793	High-Speed Calcium Imaging of Neuronal Activity Using Acousto-Optic Deflectors. 2016 , 331-356	1
792	Advances in Nanoparticle-Based Medical Diagnostic and Therapeutic Techniques. 2016 , 197-234	
791	Shell-Isolated Nanoparticle-Enhanced Raman Spectroscopy at Single-Crystal Electrode Surfaces. 2016 , 4, 1144-1158	17

790	Nanoembossed gold nanoshell with a fluorescence-like strong SERS signal. 2016 , 27, 175704	3
789	Penetratin Peptide-Functionalized Gold Nanostars: Enhanced BBB Permeability and NIR Photothermal Treatment of Alzheimer's Disease Using Ultralow Irradiance. 2016 , 8, 19291-302	63
788	Generation of Enzymatic Hydrogen Peroxide to Accelerate the Etching of Silver Nanocrystals with Selectivity. 2016 , 28, 7519-7527	5
787	Nanostructure-based plasmon-enhanced Raman spectroscopy for surface analysis of materials. 2016 , 1,	819
786	Hierarchical zwitterionic modification of a SERS substrate enables real-time drug monitoring in blood plasma. 2016 , 7, 13437	108
785	Sonochemical synthesis of highly branched flower-like FeO@SiO@Ag microcomposites and their application as versatile SERS substrates. 2016 , 8, 19816-19828	46
784	Combined Labelled and Label-free SERS Probes for Triplex Three-dimensional Cellular Imaging. 2016 , 6, 19173	38
783	Simultaneous Time-Dependent Surface-Enhanced Raman Spectroscopy, Metabolomics, and Proteomics Reveal Cancer Cell Death Mechanisms Associated with Gold Nanorod Photothermal Therapy. 2016 , 138, 15434-15442	93
782	SERS detection of Biomolecules at Physiological pH via aggregation of Gold Nanorods mediated by Optical Forces and Plasmonic Heating. 2016 , 6, 26952	113
781	Highly Controlled Synthesis and Super-Radiant Photoluminescence of Plasmonic Cube-in-Cube Nanoparticles. 2016 , 16, 7962-7967	35
780	A Salmonella nanoparticle mimic overcomes multidrug resistance in tumours. 2016 , 7, 12225	45
779	Tolerogenic nanoparticles inhibit T cell-mediated autoimmunity through SOCS2. 2016 , 9, ra61	126
778	Noble Metal Nanoparticles to Probe and Alter Biological Phenomena. 2016 , 103-149	1
777	Nanoparticles (NPs) for Biosensing Applications: Current Aspects and Prospects. 2016 , 177-209	
776	Engineering tailored nanoparticles with microbes: quo vadis?. 2016 , 8, 316-30	332
775	Silica Polymer Hybrid with Self-Assembled PEG Corona Excreted Rapidly via a Hepatobiliary Route. 2016 , 26, 3036-3047	39
774	Design considerations for SERS detection in colloidal solution: reduce spectral intensity fluctuation. 2016 , 47, 395-401	7
773	Evolution of functional polymer colloids for coatings and other applications. 2016 , 62, 2238-2247	4

772	Surface-Enhanced Raman Spectroscopy Biosensing: In Vivo Diagnostics and Multimodal Imaging. <i>Analytical Chemistry</i> , 2016 , 88, 6638-47	7.8	163
771	Ni@Au nanoparticles for surface enhanced Raman spectroscopy based ultrasensitive magnetic immunoassay on aflatoxin B1. 2016 , 6, 61325-61333		12
770	Tunable, biodegradable gold nanoparticles as contrast agents for computed tomography and photoacoustic imaging. 2016 , 102, 87-97		138
769	A novel SERS nanoprobe for the ratiometric imaging of hydrogen peroxide in living cells. 2016 , 52, 8553-6		71
768	iSERS microscopy guided by wide field immunofluorescence: analysis of HER2 expression on normal and breast cancer FFPE tissue sections. 2016 , 141, 5113-9		11
767	Microfluidics in the selection of affinity reagents for the detection of cancer: paving a way towards future diagnostics. 2016 , 16, 2759-74		19
766	Polyethylene glycol-assisted preparation of beta-tricalcium phosphate by direct precipitation method. 2016 , 301, 255-260		6
765	Tunable coating of gold nanostars: tailoring robust SERS labels for cell imaging. 2016 , 27, 265302		14
764	Rational design of Raman-labeled nanoparticles for a dual-modality, light scattering immunoassay on a polystyrene substrate. 2016 , 10, 2		10
763	Ultrathin Carbon Film Protected Silver Nanostructures for Surface-Enhanced Raman Scattering. 2016 , 70, 1751-1758		2
762	Sensing Glucose in Urine and Serum and Hydrogen Peroxide in Living Cells by Use of a Novel Boronate Nanoprobe Based on Surface-Enhanced Raman Spectroscopy. <i>Analytical Chemistry</i> , 2016 , 88, 7191-7	7.8	95
761	Sub-100 nm gold nanohole-enhanced Raman scattering on flexible PDMS sheets. 2016 , 27, 315301		8
760	Microfluidics-mediated assembly of functional nanoparticles for cancer-related pharmaceutical applications. 2016 , 8, 12430-43		84
759	Development of aptamer-modified SERS nanosensor and oligonucleotide chip to quantitatively detect melamine in milk with high sensitivity. 2016 , 228, 85-93		40
758	Nanostructure-based surface-enhanced Raman scattering biosensors for nucleic acids and proteins. 2016 , 4, 1757-1769		65
757	Actively targeted gold nanoparticles as novel radiosensitizer agents: an in vivo head and neck cancer model. 2016 , 8, 2678-85		67
756	Nanochemistry and Nanomedicine for Nanoparticle-based Diagnostics and Therapy. 2016 , 116, 2826-85		962
755	PEGylation density-modulated anticancer drug release on gold nanoparticles in live cells. 2016 , 33, 345-354		11

754	Fluorescence intensity enhancement mechanism in presence of plasmonic nanoparticles. 2016,		
753	Nonepitaxial growth of uniform and precisely size-tunable core/shell nanoparticles and their enhanced plasmon-driven photocatalysis. 2016, 4, 7190-7199		65
752	Unique optical properties and applications of hollow gold nanospheres (HGNS). <i>Coordination Chemistry Reviews</i> , 2016, 320-321, 18-37	23.2	32
751	Surgical Guidance via Multiplexed Molecular Imaging of Fresh Tissues Labeled with SERS-Coded Nanoparticles. 2016, 22,		26
750	Stable and unique graphitic Raman internal standard nanocapsules for surface-enhanced Raman spectroscopy quantitative analysis. 2016, 9, 1418-1425		38
749	Highly effective and uniform SERS substrates fabricated by etching multi-layered gold nanoparticle arrays. 2016, 8, 5928-37		43
748	In vivo degeneration and the fate of inorganic nanoparticles. 2016, 45, 2440-57		289
747	Vibrational spectroscopy of metal carbonyls for bio-imaging and -sensing. 2016, 141, 1569-86		18
746	A novel biosensor based on competitive SERS immunoassay and magnetic separation for accurate and sensitive detection of chloramphenicol. 2016, 80, 373-377		82
745	Label-free surface-enhanced Raman scattering strategy for rapid detection of penicilloic acid in milk products. 2016, 197, 723-9		29
744	Nanoparticle-enhanced x-ray therapy for cancer. 2016,		1
743	Using Raman spectroscopy to characterize biological materials. 2016, 11, 664-87		570
742	Plasmonic Nanobubble-Controlled on Demand Drug Delivery and Release with High Target Cell Specificity. 2016, 213-252		
741	Direct Measurement of the Absolute Orientation of N3 Dye at Gold and Titanium Dioxide Surfaces with Heterodyne-Detected Vibrational SFG Spectroscopy. 2016, 120, 6601-6611		18
740	SERS detection and targeted ablation of lymphoma cells using functionalized Ag nanoparticles. 2016,		2
739	Raman and surface-enhanced Raman spectroscopy for renal condition monitoring. 2016,		
738	Raman spectrum of graphene with its versatile future perspectives. 2016, 80, 125-131		86
737	Targeted Nitric Oxide Delivery by Supramolecular Nanofibers for the Prevention of Restenosis After Arterial Injury. 2016, 24, 401-18		42

736	Gold Nanostructures for Cancer Imaging and Therapy. 2016 , 53-101		4
735	Highly narrow nanogap-containing Au@Au core-shell SERS nanoparticles: size-dependent Raman enhancement and applications in cancer cell imaging. 2016 , 8, 2090-6		61
734	Near-Infrared Light-Mediated Gold Nanoplatforms for Cancer Theranostics. 2016 , 3-52		3
733	The concept of bio-corona in modulating the toxicity of engineered nanomaterials (ENM). 2016 , 299, 53-7		50
732	Facile Construction of pH- and Redox-Responsive Micelles from a Biodegradable Poly(β -hydroxyl amine) for Drug Delivery. 2016 , 17, 291-300		76
731	Distribution of Silica-Coated Silver/Gold Nanostars in Soft- and Hardwood Applying SERS-Based Imaging. 2016 , 32, 274-83		5
730	SERS Investigations of Cells, Viruses and Microorganisms. 2016 , 127-148		0
729	Medical Applications of SERS. 2016 , 149-211		5
728	Gold nanoparticles as sensors in the colorimetric and fluorescence detection of chemical warfare agents. <i>Coordination Chemistry Reviews</i> , 2016 , 311, 75-84	23.2	89
727	Inhibition of autophagy overcomes the nanotoxicity elicited by cadmium-based quantum dots. 2016 , 78, 102-14		64
726	Gold Nanoparticles for Biomedical Applications: Synthesis and In Vitro Evaluation. 2016 , 87-111		6
725	Gold-Based Nanomaterials for Applications in Nanomedicine. 2016 , 370, 169-202		43
724	Protein-specific Raman imaging of glycosylation on single cells with zone-controllable SERS effect. 2016 , 7, 569-574		31
723	Sonication synthesis of micro-sized silver nanoparticle/oleic acid liquid marbles: A novel SERS sensing platform. 2016 , 223, 52-58		15
722	A novel biosensor based on Au@Ag core-shell nanoparticles for SERS detection of arsenic (III). 2016 , 146, 285-90		119
721	The application of antitumor drug-targeting models on liver cancer. 2016 , 23, 1667-75		3
720	Inorganic nanoparticles for biomedicine: where materials scientists meet medical research. 2016 , 19, 19-28		196
719	Raman Spectroscopy Techniques: Developments and Applications in Translational Medicine. 2016 , 111-133		

7 ¹⁸	Near-infrared light-responsive nanomaterials for cancer theranostics. 2016 , 8, 23-45	95
7 ¹⁷	Prussian Blue as a Highly Sensitive and Background-Free Resonant Raman Reporter. <i>Analytical Chemistry</i> , 2017 , 89, 1551-1557	7.8 57
7 ¹⁶	Single-molecule detection of protein efflux from microorganisms using fluorescent single-walled carbon nanotube sensor arrays. 2017 , 12, 368-377	127
7 ¹⁵	Limiting the protein corona: A successful strategy for in vivo active targeting of anti-HER2 nanobody-functionalized nanostars. 2017 , 123, 15-23	25
7 ¹⁴	Renal clearable noble metal nanoparticles: photoluminescence, elimination, and biomedical applications. 2017 , 9, e1453	33
7 ¹³	Fluorescent Gold Nanoclusters as a Powerful Tool for Sensing Applications in Cancer Management. 2017 , 385-428	2
7 ¹²	An Enzyme-Free Signal Amplification Technique for Ultrasensitive Colorimetric Assay of Disease Biomarkers. 2017 , 11, 2052-2059	104
7 ¹¹	Highly sensitive, reproducible and stable SERS substrate based on reduced graphene oxide/silver nanoparticles coated weighing paper. 2017 , 404, 334-341	34
7 ¹⁰	Interference-Free Surface-Enhanced Raman Scattering Tags for Single-Cell Molecular Imaging with a High Signal-to-Background Ratio. 2017 , 13, 1603340	29
7 ⁰⁹	Large-scale Ag-nanoparticles/Al ₂ O ₃ /Au-nanograting hybrid nanostructure for surface-enhanced Raman scattering. 2017 , 172, 1-7	10
7 ⁰⁸	Near-infrared fluorophores for biomedical imaging. 2017 , 1,	1255
7 ⁰⁷	Uptake of silver nanoparticles by DHA-treated cancer cells examined by surface-enhanced Raman spectroscopy in a microfluidic chip. 2017 , 17, 1306-1313	21
7 ⁰⁶	Core-Shell Nanoparticle-Enhanced Raman Spectroscopy. 2017 , 117, 5002-5069	577
7 ⁰⁵	Graphene/TiO ₂ hybrid layer for simultaneous detection and degradation by a one-step transfer and integration method. 2017 , 7, 14959-14965	6
7 ⁰⁴	Nanoparticle Bioconjugates: Materials that Benefit from Chemoselective and Bioorthogonal Ligation Chemistries. 2017 , 543-629	2
7 ⁰³	Raman spectroscopy using plasmonic and carbon-based nanoparticles for cancer detection, diagnosis, and treatment guidance. Part 1: Diagnosis. 2017 , 49, 212-252	13
7 ⁰²	Tracing sialoglycans on cell membrane via surface-enhanced Raman scattering spectroscopy with a phenylboronic acid-based nanosensor in molecular recognition. 2017 , 94, 148-154	27
7 ⁰¹	Ultraphotostable Mesoporous Silica-Coated Gap-Enhanced Raman Tags (GERTs) for High-Speed Bioimaging. 2017 , 9, 3995-4005	56

700	Interrogating Cells, Tissues, and Live Animals with New Generations of Surface-Enhanced Raman Scattering Probes and Labels. 2017 , 11, 1136-1141		59
699	SERS-based ultrasensitive sensing platform: An insight into design and practical applications. <i>Coordination Chemistry Reviews</i> , 2017 , 337, 1-33	23.2	66
698	Magnetic separation of clenbuterol based on competitive immunoassay and evaluation by surface-enhanced Raman spectroscopy. 2017 , 7, 3388-3397		10
697	Golden Opportunities: Plasmonic Gold Nanostructures for Biomedical Applications based on the Second Near-Infrared Window. <i>Small Methods</i> , 2017 , 1, 1600032	12.8	82
696	Bioanalytical Measurements Enabled by Surface-Enhanced Raman Scattering (SERS) Probes. 2017 , 10, 415-437		51
695	Shell-Isolated Nanoparticle-Enhanced Raman Spectroscopy (SHINERS) of Electrode Surfaces. 2017 , 339-372		1
694	Gold Superparticles Functionalized with Azobenzene Derivatives: SERS Nanotags with Strong Signals. 2017 , 9, 10530-10536		9
693	Building Electromagnetic Hot Spots in Living Cells via Target-Triggered Nanoparticle Dimerization. 2017 , 11, 3532-3541		89
692	A metallic molybdenum dioxide with high stability for surface enhanced Raman spectroscopy. 2017 , 8, 14903		153
691	Continuous fabrication of microcapsules with controllable metal covered nanoparticle arrays using droplet microfluidics for localized surface plasmon resonance. 2017 , 17, 1970-1979		28
690	Therapeutic nanomaterials: from a drug delivery perspective. 2017 , 1-61		
689	High-Yield Synthesis of Janus Dendritic Mesoporous Silica@Resorcinol-Formaldehyde Nanoparticles: A Competing Growth Mechanism. 2017 , 33, 5269-5274		13
688	Antifouling performance of nano-sized spherical poly(N-hydroxyethyl acrylamide) brush. 2017 , 155, 408-414		9
687	Further expanding versatility of surface-enhanced Raman spectroscopy: from non-traditional SERS-active to SERS-inactive substrates and single shell-isolated nanoparticle. 2017 , 205, 457-468		9
686	Induction of Chondrogenic Differentiation of Human Mesenchymal Stem Cells by Biomimetic Gold Nanoparticles with Tunable RGD Density. 2017 , 6, 1700317		20
685	Simultaneous Surface-Enhanced Raman Spectroscopy Detection of Multiplexed MicroRNA Biomarkers. <i>Analytical Chemistry</i> , 2017 , 89, 6120-6128	7.8	126
684	Adhesion Enhancements and Surface-Enhanced Raman Scattering Activity of Ag and Ag@SiO Nanoparticle Decorated Ragweed Pollen Microparticle Sensor. 2017 , 9, 24804-24811		14
683	In situ assembly of active surface-enhanced Raman scattering substrates via electric field-guided growth of dendritic nanoparticle structures. 2017 , 9, 7847-7857		31

682	Triplex-hybridizing bioconjugated gold nanoparticles for specific Y-chromosome sequence targeting of bull spermatozoa. 2017 , 142, 2020-2028		11
681	Towards clinically translatable nanodiagnostics. 2017 , 2,		178
680	High-Precision Profiling of Sialic Acid Expression in Cancer Cells and Tissues Using Background-Free Surface-Enhanced Raman Scattering Tags. <i>Analytical Chemistry</i> , 2017 , 89, 5874-5881	7.8	38
679	A magnetic polypyrrole/iron oxide core/gold shell nanocomposite for multimodal imaging and photothermal cancer therapy. 2017 , 171, 32-38		39
678	Design and Applications of Nanoparticles in Biomedical Imaging. 2017 ,		9
677	Lysosomal responses to different gold forms (nanoparticles, aqueous, bulk) in mussel digestive cells: a trade-off between the toxicity of the capping agent and form, size and exposure concentration. 2017 , 11, 658-670		8
676	An EGFRvIII targeted dual-modal gold nanoprobe for imaging-guided brain tumor surgery. 2017 , 9, 7930-7940		25
675	Indocyanine green-loaded gold nanostars for sensitive SERS imaging and subcellular monitoring of photothermal therapy. 2017 , 9, 11888-11901		48
674	DNA-assisted decoration of single-walled carbon nanotubes with gold nanoparticles for applications in surface-enhanced Raman scattering imaging of cells. 2017 , 19, 1		10
673	Cancer imaging using surface-enhanced resonance Raman scattering nanoparticles. 2017 , 12, 1400-1414		92
672	Raman spectroscopy and regenerative medicine: a review. 2017 , 2, 12		93
671	SERS-Activated Platforms for Immunoassay: Probes, Encoding Methods, and Applications. 2017 , 117, 7910-7963		332
670	Nanotechnology in neurosurgery: thinking small, dreaming big. 2017 , 31, 538-550		1
669	Plasmon-plasmon interaction effect on reproducible surface-enhanced Raman scattering for dye molecule detection. 2017 , 262, 87-98		9
668	Stacked Gold Nanodisks for Bimodal Photoacoustic and Optical Coherence Imaging. 2017 , 11, 6225-6232		29
667	Rituxan nanoconjugation prolongs drug/cell interaction and enables simultaneous depletion and enhanced Raman detection of lymphoma cells. 2017 , 5, 5165-5175		6
666	Effect of Alkylation on the Cellular Uptake of Polyethylene Glycol-Coated Gold Nanoparticles. 2017 , 11, 6085-6101		32
665	An ultrasensitive near-infrared satellite SERS sensor: DNA self-assembled gold nanorod/nanospheres structure. 2017 , 7, 9321-9327		16

664	Highly Bright SERS Nanotags with Multiplexing Fingerprints for Sensitive Immunoassays. 2017 , 5, 1700133	4
663	Antibody Conjugated, Raman Tagged Hollow Gold-Silver Nanospheres for Specific Targeting and Multimodal Dark-Field/SERS/Two Photon-FLIM Imaging of CD19(+) B Lymphoblasts. 2017 , 9, 21155-21168	32
662	Fast and reproducible iSERS microscopy of single HER2-positive breast cancer cells using gold nanostars as SERS nanotags. 2017 , 205, 377-386	16
661	Micro-Raman spectroscopy as an enabling tool for long-term intracellular studies of nanomaterials at nanomolar concentration levels. 2017 , 5, 6536-6545	3
660	Surface Engineered Nanoparticles: Considerations for Biomedical Applications. 2017 , 19, 1700302	6
659	Lattice-matched carbon dots induced the oriented self-assembly of Cu nanoparticles. 2017 , 118, 625-633	9
658	Development of biocompatible and safe polyethersulfone hemodialysis membrane incorporated with functionalized multi-walled carbon nanotubes. 2017 , 77, 572-582	40
657	Biocompatible 3D SERS substrate for trace detection of amino acids and melamine. 2017 , 181, 91-97	16
656	Raman Spectroscopic Signature Markers of Dopamine-Human Dopamine Transporter Interaction in Living Cells. 2017 , 8, 1510-1518	20
655	Multi-functional, thiophenol-based surface chemistry for surface-enhanced Raman spectroscopy. 2017 , 53, 4550-4561	40
654	Diverse Applications of Nanomedicine. 2017 , 11, 2313-2381	714
653	Generation of biocompatible nanogold using H ₂ O ₂ /tarch and their catalytic/antimicrobial activities. 2017 , 90, 354-367	52
652	In vivo toxicological assessment of electrochemically engineered anodic alumina nanotubes: a study of biodistribution, subcutaneous implantation and intravenous injection. 2017 , 5, 2511-2523	6
651	The Handbook of Nanomedicine. 2017 ,	19
650	Fundamentals and applications of SERS-based bioanalytical sensing. 2017 , 6, 831-852	104
649	Optimization of Nanoparticle-Based SERS Substrates through Large-Scale Realistic Simulations. 2017 , 4, 329-337	92
648	Application of Au based nanomaterials in analytical science. 2017 , 12, 64-97	58
647	Chitosan gel incorporated peptide-modified AuNPs for sustained drug delivery with smart pH responsiveness. 2017 , 5, 1174-1181	9

646 Nanoparticles for Cardiovascular Imaging with CT. **2017**, 357-384

645 The fabrication of polymer-nanocone-based 3D Au nanoparticle array and its SERS performance. **2017**, 123, 1 7

644 Janus PEGylated gold nanoparticles: a robust colorimetric probe for sensing nitrite ions in complex samples. **2017**, 9, 1811-1815 26

643 Bioconjugated Nanoparticles for Biosensing, in Vivo Imaging, and Medical Diagnostics. *Analytical Chemistry*, **2017**, 89, 1015-1031 7.8 102

642 Real-time metabolite monitoring of glucose-fed *Clostridium acetobutylicum* fermentations using Raman assisted metabolomics. **2017**, 48, 1852-1862 5

641 Plasmonic MoO Nanospheres as a Highly Sensitive and Stable Non-Noble Metal Substrate for Multicomponent Surface-Enhanced Raman Analysis. *Analytical Chemistry*, **2017**, 89, 11765-11771 7.8 46

640 Measurement and Imaging of Raman Spectroscopy with Nanoparticles. **2017**, 23-37

639 Gold Nanoparticles: A Versatile Platform for Cancer Diagnosis, Imaging and Therapy. **2017**, 83-137

638 Surface-Enhanced Raman Scattering for Label-Free Living Single Cell Analysis. *Analytical Chemistry*, **2017**, 89, 11160-11166 7.8 38

637 Fast Image-Guided Stratification Using Anti-Programmed Death Ligand 1 Gold Nanoparticles for Cancer Immunotherapy. **2017**, 11, 11127-11134 80

636 Branched Nanostructure for Dual-Model Imaging. **2017**, 07, 1750003

635 Exploiting Le Chatelier's principle for a one-pot synthesis of nontoxic HHogGNPs with the sharpest nanoscopic features suitable for tunable plasmon spectroscopy and high throughput SERS sensing. **2017**, 53, 10402-10405 7

634 Flame deposition method for carbon nanoparticles employing green precursors and its composite with Au nanoparticles for photocatalytic degradation of methylene blue. **2017**, 146, 633-640 6

633 In Vitro Isothermal Nucleic Acid Amplification Assisted Surface-Enhanced Raman Spectroscopic for Ultrasensitive Detection of *Vibrio parahaemolyticus*. *Analytical Chemistry*, **2017**, 89, 9775-9780 7.8 38

632 Leakage-free polypyrrole-Au nanostructures for combined Raman detection and photothermal cancer therapy. **2017**, 5, 7949-7962 20

631 Gold nanorods based diffusion reflection measurements: current status and perspectives for clinical applications. **2017**, 6, 1031-1042 23

630 Surface-Enhanced Raman Spectroscopy-Based Sandwich Immunoassays for Multiplexed Detection of Zika and Dengue Viral Biomarkers. **2017**, 3, 767-776 98

629 Capturing Plasmon Molecule Dynamics in Dye Monolayers on Metal Nanoparticles Using Classical Electrodynamics with Quantum Embedding. **2017**, 121, 16932-16942 12

628	The effect of selected food phytochemicals on breast cancer metastasis based on in vivo capture of circulating tumor cells. 2017 , 8, 2698-2701	4
627	Fe ₂ O ₃ @BiO ₂ Core-Shell Nanoparticles Conjugated With Bovine Serum Albumin. 2017 , 53, 1-6	3
626	Analytical Modeling of Graphene Plasmons. 2017 , 4, 3106-3114	40
625	Depolarization signatures map gold nanorods within biological tissue. 2017 , 11, 583-588	21
624	Nanomaterials for the Capture and Therapeutic Targeting of Circulating Tumor Cells. 2017 , 10, 275-294	21
623	Surface-enhanced Raman spectroscopy for in vivo biosensing. 2017 , 1,	234
622	Unveiling NIR Aza-Boron-Dipyrromethene (BODIPY) Dyes as Raman Probes: Surface-Enhanced Raman Scattering (SERS)-Guided Selective Detection and Imaging of Human Cancer Cells. 2017 , 23, 14286-14291 ¹⁶	16
621	Simultaneous detection of clenbuterol and ractopamine based on multiplexed competitive surface enhanced Raman scattering (SERS) immunoassay. 2017 , 41, 10407-10414	19
620	Green synthesis of MPA-capped CdTe/CdSe quantum dots at different pH and its effect on the cell viability of fibroblast histiocytoma cells. 2017 , 209, 299-302	8
619	Gold Nanoparticles in Molecular Diagnostics and Molecular Therapeutics. 2017 , 365-387	2
618	Encapsulation and Application of Metal Nanoparticles in Pharma. 2017 , 53-76	
617	Macroscopic Assembly of Gold Nanorods into Superstructures with Controllable Orientations by Anisotropic Affinity Interaction. 2017 , 33, 13867-13873	24
616	Liquid magnetic competitive immunoassay of clenbuterol based on surface-enhanced Raman spectroscopy. 2017 , 48, 1307-1317	6
615	Plasmonic Nanoparticles Application in Biosensor and Bioimaging. 2017 , 151-205	
614	Targeting cancer cell integrins using gold nanorods in photothermal therapy inhibits migration through affecting cytoskeletal proteins. 2017 , 114, E5655-E5663	121
613	Multiphoton-Excited Fluorescence of Silicon-Vacancy Color Centers in Diamond. 2017 , 7,	4
612	Surface enhanced Raman spectroscopy (SERS) for in vitro diagnostic testing at the point of care. 2017 , 6, 681-701	41
611	Insights into the interactions of biomolecules with small gold clusters: a theoretical study from a DFTB perspective. 2017 , 136, 1	7

610	Surface-Enhanced, Spatially Offset Raman Spectroscopy (SESORS) in Tissue Analogues. 2017 , 9, 25488-25494	30
609	Assessment of PEG and BSA-PEG gold nanoparticles cellular interaction. 2017 , 532, 70-76	33
608	Achieving ultrasensitive in vivo detection of bone crack with polydopamine-capsulated surface-enhanced Raman nanoparticle. 2017 , 114, 54-61	31
607	The application of nanoparticles in diagnosis and theranostics of gastric cancer. 2017 , 386, 123-130	40
606	Towards understanding the distribution and tumor targeting of sericin regulated spherical calcium phosphate nanoparticles. 2017 , 80, 321-330	6
605	Optical Nanoprobes for Ultrasensitive Immunoassay. <i>Analytical Chemistry</i> , 2017 , 89, 124-137	7.8 94
604	Ultrasmall Gold Nanoparticles Behavior in Vivo Modulated by Surface Polyethylene Glycol (PEG) Grafting. 2017 , 28, 239-243	19
603	Current Challenges toward In Vitro Cellular Validation of Inorganic Nanoparticles. 2017 , 28, 212-221	61
602	Bioapplications of graphene constructed functional nanomaterials. 2017 , 262, 69-89	33
601	Graphene as a new material in anticancer therapy-in vitro studies. 2017 , 243, 152-165	35
600	RGDFK-functionalized gold nanorods bind only to activated platelets. 2017 , 105, 209-217	4
599	Antibody fragments as nanoparticle targeting ligands: a step in the right direction. 2017 , 8, 63-77	163
598	SERS optical fiber probe with plasmonic end-facet. 2017 , 48, 211-216	12
597	Plasmon-actuated nano-assembled microshells. 2017 , 7, 17788	9
596	Nanoarchitecture's Influence on Surface-Enhanced Spectroscopy: The Use of Surface-Enhanced Raman Scattering Substrates. 2017 , 11, 6-13	
595	Radiosensitization of Prostate Cancers In Vitro and In Vivo to Erbium-filtered Orthovoltage X-rays Using Actively Targeted Gold Nanoparticles. 2017 , 7, 18044	24
594	In vitro and in vivo toxicity assessment of nanoparticles. 2017 , 7, 243-256	151
593	Hepatocellular carcinoma-targeted nanoparticles for cancer therapy. 2018 , 52, 389-401	14

592	3.7 Raman Spectroscopy. 2017 , 108-127	
591	Metal Nanoparticles in Nanomedicine: Advantages and Scope. 2017 , 121-168	3
590	Applications of Metal Nanoparticles in Medicine/Metal Nanoparticles as Anticancer Agents. 2017 , 169-190	4
589	Immobilized Monolayer Nanoparticles in a Microfluidic Device for Surface Enhanced Raman Scattering Measurement. 2017 , 6, 122-128	1
588	High dynamic spectroscopy using a digital micromirror device and periodic shadowing. 2017 , 25, 212-222	11
587	Hot luminescence from gold nanoflowers and its application in high-density optical data storage. 2017 , 25, 9262-9275	12
586	Conspectus on Nanotechnology in Oral Cancer Diagnosis and Treatment. 2017 , 31-49	1
585	Surface regeneration and signal increase in surface-enhanced Raman scattering substrates. 2017 , 56, B198-B213	14
584	Raman spectroscopy: techniques and applications in the life sciences. 2017 , 9, 315	121
583	Noncovalent Interactions in Nanotechnology. 2017 , 417-451	5
582	Multiplexed Optical Imaging of Tumor-Directed Nanoparticles: A Review of Imaging Systems and Approaches. 2017 , 1, 369-388	29
581	Enhanced Raman spectroscopy by a double cavity metal-cladding waveguide. 2017 , 56, 115	4
580	3.20 Molecular Imaging. 2017 , 424-466	2
579	Improved Margins Detection of Regions Enriched with Gold Nanoparticles inside Biological Phantom. 2017 , 10,	5
578	Monitoring and tracking metallic nanobiomaterials in vivo. 2017 , 135-149	1
577	Cancer characterization and diagnosis with SERS-encoded particles. 2017 , 8,	42
576	Nano-based delivery of RNAi in cancer therapy. 2017 , 16, 134	123
575	Perspectives of Carbohydrates in Drug Discovery. 2017 , 577-610	4

574	Plasmonic Nanostructures as Surface-Enhanced Raman Scattering (SERS) Substrate for Protein Biomarker Sensing. 2017 ,		2
573	Amphiphilic Functionalized Acupuncture Needle as SERS Sensor for In Situ Multiphase Detection. <i>Analytical Chemistry</i> , 2018 , 90, 3826-3832	7.8	33
572	Isotopic graphene-isolated-Au-nanocrystals with cellular Raman-silent signals for cancer cell pattern recognition. 2018 , 9, 2842-2849		36
571	ISERS Microscopy for Tissue-Based Cancer Diagnostics with SERS Nanotags. 2018 , 347-379		3
570	Noble metals-TiO ₂ nanocomposites: From fundamental mechanisms to photocatalysis, surface enhanced Raman scattering and antibacterial applications. 2018 , 11, 82-135		148
569	Design of SERS nanoprobe for Raman imaging: materials, critical factors and architectures. 2018 , 8, 381-389		42
568	Classifying low-grade and high-grade bladder cancer using label-free serum surface-enhanced Raman spectroscopy and support vector machine. 2018 , 28, 035603		13
567	Reaction-based SERS nanosensor for monitoring and imaging the endogenous hypochlorous acid in living cells. 2018 , 1018, 104-110		19
566	Raman photostability of off-resonant gap-enhanced Raman tags.. 2018 , 8, 14434-14444		18
565	Emergence of two near-infrared windows for in vivo and intraoperative SERS. 2018 , 45, 95-103		31
564	Monitoring of betulin nanoemulsion treatment and molecular changes in mouse skin cancer using surface enhanced Raman spectroscopy. 2018 , 95, 44-50		14
563	Organelle-Targeting Gold Nanorods for Macromolecular Profiling of Subcellular Organelles and Enhanced Cancer Cell Killing. 2018 , 10, 7910-7918		40
562	A Supersensitive CTC Analysis System Based on Triangular Silver Nanoprisms and SPION with Function of Capture, Enrichment, Detection, and Release. 2018 , 4, 1073-1082		39
561	Quantitative investigation on the critical thickness of the dielectric shell for metallic nanoparticles determined by the plasmon decay length. 2018 , 29, 165501		3
560	Point-of-care testing in the early diagnosis of acute pesticide intoxication: The example of paraquat. 2018 , 12, 011501		12
559	Surface-enhanced Raman scattering nanosensors for in vivo detection of nucleic acid targets in a large animal model. 2018 , 11, 4005-4016		25
558	Shell-Isolated Nanoparticle-Enhanced Raman Spectroscopy. 2018 , 189-230		
557	Cellular imaging by targeted assembly of hot-spot SERS and photoacoustic nanoprobe using split-fluorescent protein scaffolds. 2018 , 9, 607		78

556	N-Heterocyclic Carbenes as a Robust Platform for Surface-Enhanced Raman Spectroscopy. 2018 , 140, 1247-1250		31
555	Improved Quantitative SERS Enabled by Surface Plasmon Enhanced Elastic Light Scattering. <i>Analytical Chemistry</i> , 2018 , 90, 3227-3237	7.8	36
554	In situ, accurate, surface-enhanced Raman scattering detection of cancer cell nucleus with synchronous location by an alkyne-labeled biomolecular probe. 2018 , 410, 585-594		7
553	Preliminary study on X-ray fluorescence computed tomography imaging of gold nanoparticles: Acceleration of data acquisition by multiple pinholes scheme. 2018 , 886, 71-76		5
552	Entry of nanoparticles into cells: the importance of nanoparticle properties. 2018 , 9, 259-272		199
551	Junction opener protein increases nanoparticle accumulation in solid tumors. 2018 , 272, 9-16		14
550	meso-Tetrahydroxyphenylchlorin-Conjugated Gold Nanoparticles as a Tool To Improve Photodynamic Therapy. 2018 , 10, 2319-2327		30
549	Application of nanoparticles in cancer detection by Raman scattering based techniques. 2018 , 9, 1373551		32
548	Identification of breast cancer through spectroscopic analysis of cell-membrane sialic acid expression. 2018 , 1033, 148-155		16
547	Synthesis, stability, and in vitro oral cancer cell toxicity of human serum albumin stabilised gold nanoflowers. 2018 , 12, 292-297		3
546	Flexible surface-enhanced Raman scattering-active substrates based on nanofibrous membranes. 2018 , 11, 4468-4488		29
545	Element-specific spectral imaging of multiple contrast agents: a phantom study. 2018 , 13, T02001-T02001		22
544	Water-soluble fluorescent unimolecular micelles: ultra-small size, tunable fluorescence emission from the visible to NIR region and enhanced biocompatibility for in vitro and in vivo bioimaging. 2018 , 54, 6252-6255		19
543	A highly sensitive and stable SERS substrate using hybrid tungsten dioxide/carbon ultrathin nanowire beams. 2018 , 6, 3200-3205		8
542	Through tissue imaging of a live breast cancer tumour model using handheld surface enhanced spatially offset resonance Raman spectroscopy (SESORRS). 2018 , 9, 3788-3792		29
541	Surface-enhanced Raman nanoparticles for tumor theranostics applications. 2018 , 8, 349-359		41
540	Relevance of protein-protein interactions on the biological identity of nanoparticles. 2018 , 166, 330-338		12
539	A universal strategy for the one-pot synthesis of SERS tags. 2018 , 10, 8292-8297		18

538	Undulated Gold Nanoplatelet Superstructures: In Situ Growth of Hemispherical Gold Nanoparticles onto the Surface of Gold Nanotriangles. 2018 , 34, 4584-4594	17
537	Composition-adjustable Ag-Au substitutional alloy microcages enabling tunable plasmon resonance for ultrasensitive SERS. 2018 , 9, 4009-4015	53
536	Ratiometric optical nanoprobe enable accurate molecular detection and imaging. 2018 , 47, 2873-2920	394
535	Gold nanoparticles in cardiovascular imaging. 2018 , 10, e1470	23
534	Potential applications and human biosafety of nanomaterials used in nanomedicine. 2018 , 38, 3-24	62
533	Nanoscale graphene oxide-induced metallic nanoparticle clustering for surface-enhanced Raman scattering-based IgG detection. 2018 , 255, 183-192	18
532	Enhanced thermal stability of boron nitride-coated Au nanoparticles for surface enhanced Raman spectroscopy. 2018 , 730, 487-492	5
531	The effect of solvent environment toward optimization of SERS sensors for pesticides detection from chemical enhancement aspects. 2018 , 256, 721-728	38
530	Synthetic immune niches for cancer immunotherapy. 2018 , 18, 212-219	99
529	Metal Nanoparticles and Clusters. 2018 ,	12
528	Molecular dynamics characterization of silver colloidal interfaces for SERS applications. Gallic acid test. 2018 , 49, 256-261	1
527	Selective isolation and noninvasive analysis of circulating cancer stem cells through Raman imaging. 2018 , 102, 372-382	42
526	Fluorometric competitive immunoassay for chlorpyrifos using rhodamine-modified gold nanoparticles as a label. 2017 , 185, 41	14
525	Nanoplasmonic sensors for detecting circulating cancer biomarkers. 2018 , 125, 48-77	69
524	Microscopic investigation of" topically applied nanoparticles for molecular imaging of fresh tissue surfaces. 2018 , 11, e201700246	9
523	SERS of cells: What can we learn from cell lysates?. 2018 , 1005, 93-100	22
522	Ultrasensitive NIR-SERRS Probes with Multiplexed Ratiometric Quantification for In Vivo Antibody Leads Validation. 2018 , 7, 1700870	12
521	Doxorubicin encapsulated clicked gold nanoparticle clusters exhibiting tumor-specific disassembly for enhanced tumor localization and computerized tomographic imaging. 2018 , 269, 52-62	31

520	Surface-Enhanced Raman Spectroscopy: Principles, Substrates, and Applications. 2018 , 89-164		9
519	Preprocessing Tools Applied to Improve the Assessment of Aldrin Effects on Prostate Cancer Cells Using Raman Spectroscopy. 2018 , 72, 489-500		5
518	Acid-activatable oxidative stress-inducing polysaccharide nanoparticles for anticancer therapy. 2018 , 269, 235-244		44
517	Recent advancements in surface plasmon polaritons-plasmonics in subwavelength structures in microwave and terahertz regimes. 2018 , 4, 244-257		28
516	Overcoming the Blood-Brain Barrier: The Role of Nanomaterials in Treating Neurological Diseases. 2018 , 30, e1801362		226
515	multiplex molecular imaging of vascular inflammation using surface-enhanced Raman spectroscopy. 2018 , 8, 6195-6209		40
514	Ultrasensitive Analyte Detection by Combining Nanoparticle-based Surface-Enhanced Raman Scattering (SERS) Substrates with Multivariate Analysis. 2018 , 5, 27377-27386		2
513	SERS Research Applied to Polymer Based Nanocomposites. 2018 ,		
512	Setting Up a Surface-Enhanced Raman Scattering Database for Artificial-Intelligence-Based Label-Free Discrimination of Tumor Suppressor Genes. <i>Analytical Chemistry</i> , 2018 , 90, 14216-14221	7.8	37
511	Fano Resonances in the Linear and Nonlinear Plasmonic Response. 2018 , 1-31		3
510	Raman Spectroscopic Analysis of Signaling Molecules-Dopamine Receptors Interactions in Living Cells. 2018 , 3, 14849-14857		6
509	Application of Vibrational Spectroscopy and Imaging to Point-of-Care Medicine: A Review. 2018 , 72, 52-84		53
508	Nanomaterials: Toxicity, Risk Management and Public Perception. 2018 , 283-304		2
507	Broadband single molecule SERS detection designed by warped optical spaces. 2018 , 9, 5428		90
506	Efficient Cytosolic Delivery Using Crystalline Nanoflowers Assembled from Fluorinated Peptoids. 2018 , 14, e1803544		26
505	Engineering Controlled Peritumoral Inflammation to Constrain Brain Tumor Growth. 2019 , 8, e1801076		2
504	Reusable surface-enhanced Raman substrates using microwave annealing. 2018 , 124, 1		2
503	Silent enhancement of SERS signal without increasing hot spot intensities. 2018 , 7, 1687-1695		18

502	Developing Hollow-Channel Gold Nanoflowers as Trimodal Intracellular Nanoprobes. 2018 , 19,		6
501	Application of Plasmonic Gold Nanoparticle for Drug Delivery System. 2018 , 19, 271-278		11
500	Different Instrumentation Techniques. 2018 , 43-67		1
499	SERS Nanoprobes in Biologically Raman Silent Region for Tumor Cell Imaging and In Vivo Tumor Spectral Detection in Mice. 2018 , 2, 1800100		15
498	Hydrogels Incorporating Au@Polydopamine Nanoparticles: Robust Performance for Optical Sensing. <i>Analytical Chemistry</i> , 2018 , 90, 11423-11430	7.8	39
497	Surface-Enhanced Raman Scattering Based Microfluidics for Single-Cell Analysis. <i>Analytical Chemistry</i> , 2018 , 90, 12004-12010	7.8	35
496	para-Aminothiophenol Radical Reaction-Functionalized Gold Nanoprobe for One-to-All Detection of Five Reactive Oxygen Species In Vivo. <i>Analytical Chemistry</i> , 2018 , 90, 12137-12144	7.8	30
495	Surface enhanced resonance Raman spectroscopy (SERRS) for probing through plastic and tissue barriers using a handheld spectrometer. 2018 , 143, 5965-5973		15
494	Controlled drug release with surface-capped mesoporous silica nanoparticles and its label-free in situ Raman monitoring. 2018 , 131, 232-239		11
493	Metallic carbide nanoparticles as stable and reusable substrates for sensitive surface-enhanced Raman spectroscopy. 2018 , 54, 10843-10846		4
492	Sonochemical and mechanical stirring synthesis of liquid metal nanograin structures for low-cost SERS substrates. 2018 , 49, 1301-1310		8
491	A Metal Chelator as a Plasmonic Signal-Generation Superregulator for Ultrasensitive Colorimetric Bioassays of Disease Biomarkers. 2018 , 5, 1800295		15
490	A preliminary study of surface enhanced Raman scattering immunoassay based on graphene oxide substrate. 2018 , 170, 146-151		3
489	Inkjet printing Ag nanoparticles for SERS hot spots. 2018 , 10, 3215-3223		26
488	Novel SERS labels: Rational design, functional integration and biomedical applications. <i>Coordination Chemistry Reviews</i> , 2018 , 371, 11-37	23.2	79
487	Detection of Redox State Evolution during Wound Healing Process Based on a Redox-Sensitive Wound Dressing. <i>Analytical Chemistry</i> , 2018 , 90, 6660-6665	7.8	6
486	Promising Applications in Medicine. 2018 , 79-135		
485	SERS Signal Enhancement of Methylene Blue-embedded Agglomerated Gold Nanorod@SiO ₂ Core@Shell Composites. 2018 , 39, 936-940		7

484	Strain-level typing and identification of bacteria - a novel approach for SERS active plasmonic nanostructures. 2018 , 410, 5019-5031	28
483	Molecular Detection and Analysis of Exosomes Using Surface-Enhanced Raman Scattering Gold Nanorods and a Miniaturized Device. 2018 , 8, 2722-2738	116
482	Shell-Isolated Nanoparticles-Enhanced Raman Spectroscopy. 2018 , 475-485	1
481	Parallel profiling of cancer cells and proteins using a graphene oxide functionalized ac-EHD SERS immunoassay. 2018 , 10, 18482-18491	16
480	Exploring the margins of SERS in practical domain: An emerging diagnostic modality for modern biomedical applications. 2018 , 181, 140-181	55
479	Synthesis of Gold Nanoparticles Using Leaf Extract of Ziziphus zizyphus and their Antimicrobial Activity. 2018 , 8,	164
478	2D Materials-Coated Plasmonic Structures for SERS Applications. 2018 , 8, 137	16
477	Insights on the transport of tamoxifen by gold nanoparticles for MCF-7 breast cancer cells based on SERS spectroscopy. 2018 , 170, 712-717	14
476	Multiplex imaging of live breast cancer tumour models through tissue using handheld surface enhanced spatially offset resonance Raman spectroscopy (SESORRS). 2018 , 54, 8530-8533	17
475	Gold Nanostructures with Superhydrophobic to Superhydrophilic Wetting Transition and Tunable SERS Applications Prepared by Galvanic Displacement. 2018 , 382, 022026	2
474	Application of Gold Nanoparticle to Plasmonic Biosensors. 2018 , 19,	63
473	Nanoplasmonic optical antennas for life sciences and medicine. 2018 , 3, 228-243	71
472	Ready-to-use protein G-conjugated gold nanorods for biosensing and biomedical applications. 2018 , 16, 5	15
471	Detection of Multiple Pathogens in Serum Using Silica-Encapsulated Nanotags in a Surface-Enhanced Raman Scattering-Based Immunoassay. 2018 , 66, 5707-5712	20
470	Highly extended filaments in aqueous gold nano-particle colloids. 2018 , 8, 5957	5
469	Surface-enhanced Raman scattering for rapid hematopoietic stem cell differentiation analysis. 2018 , 57, E184-E189	12
468	A built-in surface-enhanced Raman scattering-active microneedle for sampling in vivo and surface-enhanced Raman scattering detection ex vivo of NO. 2018 , 49, 1747-1755	9
467	Surface-enhanced Raman scattering nanoprobe for the simultaneous detection of endogenous hypochlorous acid and peroxynitrite in living cells. 2018 , 277, 8-13	7

466	Fabrication of novel biological substrate based on photolithographic process for surface enhanced Raman spectroscopy. 2018 , 8, 085302	4
465	Research Progress of Raman Spectroscopy in Drug Analysis. 2018 , 19, 2921-2928	19
464	Absorption of Ultrashort Laser Pulses by Plasmonic Nanoparticles: Not Necessarily What You Might Think. 2018 , 5, 3856-3863	13
463	Engineered nanomaterials for their applications in theragnostics. 2018 , 66, 20-28	8
462	DNA-mediated anisotropic silica coating of upconversion nanoparticles. 2018 , 54, 7183-7186	5
461	Plasmonic molecular assays: Recent advances and applications for mobile health. 2018 , 11, 5439-5473	29
460	Diagnosis of chronic kidney diseases based on surface-enhanced Raman spectroscopy and multivariate analysis. 2018 , 28, 075603	3
459	Plasmonic Optical Imaging of Gold Nanorods Localization in Small Animals. 2018 , 8, 9342	7
458	Binary "island" shaped arrays with high-density hot spots for surface-enhanced Raman scattering substrates. 2018 , 10, 14220-14229	32
457	Gold nanoparticles for cancer diagnostics, spectroscopic imaging, drug delivery, and plasmonic photothermal therapy. 2018 , 41-91	7
456	Probing the biological obstacles of nanomedicine with gold nanoparticles. 2019 , 11, e1542	34
455	Highly Sensitive and Multiplexed Protein Measurements. 2019 , 119, 293-321	98
454	Manipulation of light at the nanoscale for high-performance spectroscopic and optical applications. 2019 , 54, 482-508	2
453	Biological Logic Gate Using Gold Nanoparticles and Fluorescence Lifetime Imaging Microscopy. 2019 , 2, 6527-6536	13
452	Hydrogel Microdomain Encapsulation of Stable Functionalized Silver Nanoparticles for SERS pH and Urea Sensing. 2019 , 19,	5
451	Correlation of surface-enhanced Raman scattering (SERS) with the surface density of gold nanoparticles: evaluation of the critical number of SERS tags for a detectable signal. 2019 , 10, 1016-1023	7
450	Antifolate SERS-active nanovectors: quantitative drug nanostructuring and selective cell targeting for effective theragnostics. 2019 , 11, 15224-15233	8
449	Magnetic ferroferric oxide/phenolic resin/silver core-shell nanocomposite as recyclable substrates for enhancing surface-enhanced Raman scattering. 2019 , 92, 124-133	1

448	Construction of Sensitive Surface-Enhanced Raman Spectroscopy Chip with Sub-Nanometer WO ₃ Nanowire-Based Superstructures for Multicomponent Detection. 2019 , 4, 1900282	7
447	Ag and Au nanoparticles/reduced graphene oxide composite materials: Synthesis and application in diagnostics and therapeutics. 2019 , 271, 101991	57
446	Antibody-guided nanomedicines as novel breakthrough therapeutic, diagnostic and theranostic tools. 2019 , 7, 4000-4016	29
445	Nanocarbons for Biology and Medicine: Sensing, Imaging, and Drug Delivery. 2019 , 119, 9559-9656	219
444	Plasmon-Free Surface-Enhanced Raman Spectroscopy Using Metallic 2D Materials. 2019 , 13, 8312-8319	54
443	Ex situ and in situ surface-enhanced Raman spectroscopy for macromolecular profiles of cell nucleus. 2019 , 411, 6021-6029	7
442	Capillary electrophoresis with dual detection UV/CD for monitoring myrosinase-mediated hydrolysis of thiol glucosinolate designed for gold nanoparticle conjugation. 2019 , 1085, 117-125	5
441	Multicolor Cocktail for Breast Cancer Multiplex Phenotype Targeting and Diagnosis Using Bioorthogonal Surface-Enhanced Raman Scattering Nanoprobes. <i>Analytical Chemistry</i> , 2019 , 91, 11045-11054	24
440	Enhanced drug internalization and therapeutic efficacy of PEGylated nanoparticles by one-step formulation with anti-mPEG bispecific antibody in intrinsic drug-resistant breast cancer. 2019 , 7, 3404-3417	15
439	Biomimetic nanoparticles and self-propelled micromotors for biomedical applications. 2019 , 1-31	2
438	Interaction-Transferable Graphene-Isolated Superstable AuCo Nanocrystal-Enabled Direct Cyanide Capture. <i>Analytical Chemistry</i> , 2019 , 91, 8762-8766	7.8 5
437	Equivalence of silver and gold nanoparticles for dose enhancement in nanoparticle-aided brachytherapy. 2019 , 5, 055015	1
436	Functional Layered Double Hydroxide Nanohybrids for Biomedical Imaging. 2019 , 9,	16
435	Interdigitated silver nanoelectrode arrays: a surface-enhanced Raman scattering platform for monitoring the reorientation of molecules under an external electric field. 2019 , 29, 124002	
434	Non-invasive Imaging of Cancer Using Surface-Enhanced Spatially Offset Raman Spectroscopy (SESORS). 2019 , 9, 5899-5913	58
433	Molecular Effects and Tissue Penetration Depth of Physical Plasma in Human Mucosa Analyzed by Contact- and Marker-Independent Raman Microspectroscopy. 2019 , 11, 42885-42895	16
432	Dual-Enhanced Raman Scattering-Based Characterization of Stem Cell Differentiation Using Graphene-Plasmonic Hybrid Nanoarray. 2019 , 19, 8138-8148	38
431	Surface-Enhanced Raman Spectroscopy Characterization of Breast Cell Phenotypes: Effect of Nanoparticle Geometry. 2019 , 2, 6960-6970	3

430	Type 2 diabetes in adults with sickle cell disease: can we dive deeper? Response to Skinner et al. 2019 , 186, 782-783	
429	Comparative transcriptome profiling uncovers a <i>Lilium regale</i> NAC transcription factor, LrNAC35, contributing to defence response against cucumber mosaic virus and tobacco mosaic virus. 2019 , 20, 1662-1681	13
428	Zirconium nitride: A viable candidate for photonics and plasmonics?. 2019 , 688, 137438	23
427	CD19-targeted, Raman tagged gold nanourchins as theranostic agents against acute lymphoblastic leukemia. 2019 , 184, 110478	11
426	Ultrabright gap-enhanced Raman tags for high-speed bioimaging. 2019 , 10, 3905	73
425	Quasi-Metal for Highly Sensitive and Stable Surface-Enhanced Raman Scattering. 2019 , 19, 836-849	9
424	Refractive-Index-Insensitive Nanolaminated SERS Substrates for Label-Free Raman Profiling and Classification of Living Cancer Cells. 2019 , 19, 7273-7281	33
423	Cisplatin bioconjugated enzymatic GNPs amplify the effect of cisplatin with acquiescence. 2019 , 9, 13826	16
422	Carboxymethyl cellulose coated magnetic nanoparticles transport across a human lung microvascular endothelial cell model of the blood-brain barrier. 2019 , 1, 671-685	51
421	Single particle ICP-MS-based absolute and relative quantification of <i>E. coli</i> O157 16S rRNA using sandwich hybridization capture. 2019 , 144, 1725-1730	5
420	Delineating the tumor margin with intraoperative surface-enhanced Raman spectroscopy. 2019 , 411, 3993-4006	11
419	LHRH-targeting surface-enhanced Raman scattering tags for the rapid detection of circulating tumor cells. 2019 , 284, 468-474	14
418	Recent Progress on Liquid Biopsy Analysis using Surface-Enhanced Raman Spectroscopy. 2019 , 9, 491-525	63
417	Use of Nanoparticles in Tissue Engineering and Regenerative Medicine. 2019 , 7, 113	135
416	Applications of near infrared and surface enhanced Raman scattering techniques in tumor imaging: A short review. 2019 , 222, 117279	8
415	Terminal deoxynucleotidyl transferase (TdT)-catalyzed homo-nucleotides-constituted ssDNA: Inducing tunable-size nanogap for core-shell plasmonic metal nanostructure and acting as Raman reporters for detection of <i>Escherichia coli</i> O157:H7. 2019 , 141, 111419	10
414	Detection of glioma by surface-enhanced Raman scattering spectra with optimized mathematical methods. 2019 , 50, 1130-1140	4
413	Bacteria-Instructed Click Chemistry between Functionalized Gold Nanoparticles for Point-of-Care Microbial Detection. 2019 , 11, 23093-23101	34

412	Direct quantification of surface coverage of antibody in IgG-Gold nanoparticles conjugates. 2019 , 204, 875-881	21
411	A repertoire of biomedical applications of noble metal nanoparticles. 2019 , 55, 6964-6996	139
410	Nanomedicine in Gastric Cancer. 2019 , 213-247	
409	A novel, rapid, seedless, in situ synthesis method of shape and size controllable gold nanoparticles using phosphates. 2019 , 9, 7421	6
408	A Review on Surface-Enhanced Raman Scattering. 2019 , 9,	306
407	A Novel Ultra-Sensitive Semiconductor SERS Substrate Boosted by the Coupled Resonance Effect. 2019 , 6, 1900310	95
406	Ultrasensitive and uniform surface-enhanced Raman scattering substrates for the methidathion detection. 2019 , 9, 035203	1
405	Magnetic SERS Strip for Sensitive and Simultaneous Detection of Respiratory Viruses. 2019 , 11, 19495-19505	114
404	Gastric Cancer In The Precision Medicine Era. 2019 ,	
403	Real-time Raman detection by the cavity mode enhanced Raman scattering. 2019 , 12, 1643-1649	12
402	Biomedical inorganic nanoparticles: preparation, properties, and perspectives. 2019 , 1-46	1
401	Intracellular and Cellular Detection by SERS-Active Plasmonic Nanostructures. 2019 , 20, 2432-2441	9
400	Identification and Analysis of Exosomes by Surface-Enhanced Raman Spectroscopy. 2019 , 9, 1135	18
399	Optical transducers: Optical molecular sensing and spectroscopy. 2019 , 231-309	2
398	Non-invasive functional molecular phenotyping of human smooth muscle cells utilized in cardiovascular tissue engineering. 2019 , 89, 193-205	22
397	Split aptamer-based detection of adenosine triphosphate using surface enhanced Raman spectroscopy and two kinds of gold nanoparticles. 2019 , 186, 251	16
396	A SERS fiber probe fabricated by layer-by-layer assembly of silver sphere nanoparticles and nanorods with a greatly enhanced sensitivity for remote sensing. 2019 , 30, 255503	11
395	Alkyne- and Nitrile-Anchored Gold Nanoparticles for Multiplex SERS Imaging of Biomarkers in Cancer Cells and Tissues. 2019 , 3, 113-119	32

394	SERS Application of Noble Metal/Metal Oxide Hybrid Nanoparticles. 2019 , 457-486		1
393	Enhancing Disease Diagnosis: Biomedical Applications of Surface-Enhanced Raman Scattering. 2019 , 9, 1163		32
392	ImmunoSERS microscopy for the detection of smooth muscle cells in atherosclerotic plaques. 2019 , 133, 79-85		6
391	Alternative to Noble Metal Substrates: Metallic and Plasmonic TiO Hierarchical Microspheres for Surface Enhanced Raman Spectroscopy. <i>Analytical Chemistry</i> , 2019 , 91, 4496-4503	7.8	19
390	Reaction Kinetics-Mediated Control over Silver Nanogap Shells as Surface-Enhanced Raman Scattering Nanoprobes for Detection of Alzheimer's Disease Biomarkers. 2019 , 15, e1900613		20
389	Gold Nanoparticle-Decorated Silver Needle for Surface-Enhanced Raman Spectroscopy Screening of Residual Malachite Green in Aquaculture Products. 2019 , 2, 2752-2757		20
388	Tailored necklace-like Ag@ZIF-8 core/shell heterostructure nanowires for high-performance plasmonic SERS detection. 2019 , 371, 26-33		51
387	Gold nanorods as a high-pressure sensor of phase transitions and refractive-index gauge. 2019 , 11, 8718-8726		22
386	A Multiplexed SERS-Active Microneedle for Simultaneous Redox Potential and pH Measurements in Rat Joints.. 2019 , 2, 2102-2108		11
385	Rapid detection of multiple organophosphorus pesticides (triazophos and parathion-methyl) residues in peach by SERS based on core-shell bimetallic Au@Ag NPs. 2019 , 36, 762-778		27
384	Preparation of hierarchical superhydrophobic melamine-formaldehyde/Ag nanocomposite arrays as surface-enhanced Raman scattering substrates for ultrasensitive and reproducible detection of biomolecules. 2019 , 288, 20-26		16
383	Gold nanostructures as cancer theranostic probe: promises and hurdles. 2019 , 14, 766-796		11
382	Physical insight in the fluence-dependent distributions of Au nanoparticles produced by sub-picosecond UV pulsed laser ablation of a solid target in vacuum environment. 2019 , 480, 330-340		2
381	Analysis of phenformin hydrochloride and atypical antipsychotics in plasma using surface-enhanced Raman scattering. 2019 , 101, 46-51		2
380	Encapsulation of Noble Metal Nanoparticles through Seeded Emulsion Polymerization as Highly Stable Plasmonic Systems. 2019 , 29, 1809071		17
379	Biomaterials and Bioengineering Approaches for Mitochondria and Nuclear Targeting Drug Delivery. 2019 , 5, 1645-1660		21
378	A Hybrid Nanoplatform of Graphene Oxide/Nanogold for Plasmonic Sensing and Cellular Applications at the Nanobiointerface. 2019 , 9, 676		13
377	Fundamentals of Sustainable Nanostructural Materials at Bio-Nano Interface. 2019 , 1-24		2

376	Inorganic and organic/inorganic composite nanoparticles with potential biomedical applications: synthesis challenges for enhanced performance. 2019 , 47-99		5
375	Label-Free Detection of Multiplexed Metabolites at Single-Cell Level via a SERS-Microfluidic Droplet Platform. <i>Analytical Chemistry</i> , 2019 , 91, 15484-15490	7.8	27
374	Synthesis and Characterization of Thiolate-Protected Gold Nanoparticles of Controlled Diameter. 2019 , 123, 28486-28493		4
373	Chemistry, Biology, and Surface Engineering of Sustainable Nanostructural Materials. 2019 , 25-52		
372	Synthesis of MBA-Encoded Silver/Silica Core-Shell Nanoparticles as Novel SERS Tags for Biosensing Gibberellin A Based on Au@FeO as Substrate. 2019 , 19,		2
371	Role of Surface RGD Patterns on Protein Nanocages in Tumor Targeting Revealed Using Precise Discrete Models. 2019 , 15, e1904838		15
370	Progress in research on gold nanoparticles in cancer management. 2019 , 98, e15311		52
369	Nanotargeted radiopharmaceuticals for cancer diagnosis and treatment. 2019 , 247-266		
368	Ultrasensitive Electrochemical Immunosensor Reveals the Existence of Silk Products on the Maritime Silk Road. 2019 , 4, 3203-3209		4
367	Antibody-targeting of ultra-small nanoparticles enhances imaging sensitivity and enables longitudinal tracking of multiple myeloma. 2019 , 11, 20485-20496		14
366	PEGylation of protein-imprinted nanocomposites sandwiching CdTe quantum dots with enhanced fluorescence sensing selectivity.. 2019 , 9, 38165-38173		9
365	Au/Ag Nanobox-Based Near-Infrared Surface-Enhanced Raman Scattering for Hydrogen Sulfide Sensing.. 2019 , 2, 417-423		11
364	SPR-Based Fiber Optic Sensor Using IMO Thin Film: Towards Wide Wavelength Tunability From Visible to NIR. 2019 , 19, 2540-2546		7
363	Nanocomposite of polypyrrol and silica rods-gold nanoparticles core-shell as an ammonia sensor. 2019 , 30, 105501		9
362	Raman Spectroscopy: A Key Analytical Tool for New Drugs Research and Development. 2019 , 61, 211-250		1
361	Oral Cancer Detection. 2019 ,		4
360	A high-resolution study of in situ surface-enhanced Raman scattering nanotag behavior in biological systems. 2019 , 537, 536-546		10
359	Multi-Spectral Fluorescence Imaging of Colon Dysplasia InVivo Using a Multi-Spectral Endoscopy System. 2019 , 12, 226-235		12

358	Nanocarriers for drug delivery applications. 2019 , 17, 849-865		85
357	Shape-Controlled Hybrid Nanostructures for Cancer Theranostics. 2019 , 209-227		2
356	Saliva-Based Point-of-Care in Oral Cancer Detection: Current Trend and Future Opportunities. 2019 , 297-314		1
355	Gold nanoparticles in biological optical imaging. 2019 , 24, 120-140		154
354	Ultrasensitive and Simultaneous Detection of Two Cytokines Secreted by Single Cell in Microfluidic Droplets via Magnetic-Field Amplified SERS. <i>Analytical Chemistry</i> , 2019 , 91, 2551-2558	7.8	34
353	Light Concentration by Metal-Dielectric Micro-Resonators for SERS Sensing. 2018 , 12,		19
352	Nanomaterials for Drug Delivery: Recent Developments in Spectroscopic Characterization. 2019 , 281-336		1
351	Dual-Mode Dark Field and Surface-Enhanced Raman Scattering Liposomes for Lymphoma and Leukemia Cell Imaging. 2019 , 35, 1534-1543		2
350	Development of a self-driving bioassay based on diffusion for simple detection of microorganisms. 2019 , 278, 140-146		9
349	Metalloporphyrin Nanoparticles: Coordinating Diverse Theranostic Functions. <i>Coordination Chemistry Reviews</i> , 2019 , 379, 99-120	23.2	60
348	Emerging Theranostic Gold Nanomaterials to Combat Colorectal Cancer: A Systematic Review. 2020 , 31, 651-658		23
347	A versatile biomolecular detection platform based on photo-induced enhanced Raman spectroscopy. 2020 , 147, 111742		20
346	Single and multiple detections of foodborne pathogens by gold nanoparticle assays. 2020 , 12, e1584		23
345	Inorganic nanoparticles for targeted drug delivery. 2020 , 333-373		18
344	Cancer signaling by plasmonic quantum probes. 2020 , 18, 100465		1
343	Advances in surface-enhanced Raman spectroscopy for cancer diagnosis and staging. 2020 , 51, 7-36		22
342	Present and Future of Surface-Enhanced Raman Scattering. 2020 , 14, 28-117		1000
341	Application of molecularly imprinted polymers as artificial receptors for imaging. 2020 , 101, 444-458		27

340	Facile modification of protein-imprinted polydopamine coatings over nanoparticles with enhanced binding selectivity. 2020 , 385, 123463	23
339	Synthesis of AuNPs using plant polyphenols and their potential treatment for age-related macular degeneration. 2020 , 55, 101377	1
338	Determination of inclusion depth in ex vivo animal tissues using surface enhanced deep Raman spectroscopy. 2020 , 13, e201960092	12
337	Recent advances in cancer bioimaging using a rationally designed Raman reporter in combination with plasmonic gold. 2020 , 8, 186-198	13
336	Tailoring thermo-optical properties of eosin B dye using surfactant-free gold-silver alloy nanoparticles. 2020 , 228, 117713	4
335	Monodispersed plasmonic Prussian blue nanoparticles for zero-background SERS/MRI-guided phototherapy. 2020 , 12, 3292-3301	24
334	Metal-dielectric optical resonance in metasurfaces and SERS effect. 2020 , 52, 1	3
333	Target-triggered hot spot dispersion for cellular biothiol detection via background-free surface-enhanced Raman scattering tags. 2020 , 151, 111957	9
332	Engineering gold nanoparticles for photothermal therapy, surgery, and imaging. 2020 , 175-193	7
331	Rapid, quantitative and ultra-sensitive detection of cancer biomarker by a SERRS-based lateral flow immunoassay using bovine serum albumin coated Au nanorods.. 2019 , 10, 271-281	16
330	Silica-Coated, Waxberry-like Surface-Enhanced Raman Resonant Scattering Tag-Pair with Near-Infrared Raman Dye Encoding: Toward Duplexing Detection. <i>Analytical Chemistry</i> , 2020 , 92, 14814-14821	6
329	Flexible, Reusable SERS Substrate Derived from ZIF-67 by Adjusting LUMO and HOMO and Its Application in Identification of Bacteria. 2020 , 12, 49452-49463	15
328	Microstructure and molecular vibration of mannosylerythritol lipids from <i>Pseudozyma</i> yeast strains. 2020 , 232, 104969	2
327	High broadband photoconductivity of few-layered MoS field-effect transistors measured using multi-terminal methods: effects of contact resistance. 2020 , 12, 22904-22916	3
326	SERS activity of hybrid nano/microstructures Ag-FeO based on <i>Dimorphotheca ecklonis</i> pollen grains as bio-template. 2020 , 10, 16633	3
325	Raman Signal Enhancement Tunable by Gold-Covered Porous Silicon Films with Different Morphology. 2020 , 20,	5
324	Recent Advances in the Synthesis of Intra-Nanogap Au Plasmonic Nanostructures for Bioanalytical Applications. 2020 , 32, e2002219	13
323	Chemical identification through two-dimensional electron energy-loss spectroscopy. 2020 , 6, eabb4713	1

322	Anomalous Hydrodynamic Size Distributions of Alkylamine/Alkylacid-Encapsulated Silver Nanocolloids: Implications for Printing Ultrafine Conductive Patterns. 2020 , 3, 6884-6891		1
321	Shell-Switchable SERS Blocking Strategy for Reliable Signal-On SERS Sensing in Living Cells: Detecting an External Target without Affecting the Internal Raman Molecule. <i>Analytical Chemistry</i> , 2020 , 92, 11469-11475	7.8	10
320	Diagnostic prospects and preclinical development of optical technologies using gold nanostructure contrast agents to boost endogenous tissue contrast. 2020 , 11, 8671-8685		7
319	Nanocrystals of platinum-group metals as peroxidase mimics for diagnostics. 2020 , 56, 14962-14975		5
318	Prediction of Cancer Stem Cell Fate by Surface-Enhanced Raman Scattering Functionalized Nanoprobes. 2020 , 14, 15468-15491		5
317	Bulk Phase-Encoded Gold Nanoparticles: The Fourth-Generation Surface-Enhanced Raman Scattering Tag for Hg ²⁺ Ion Detection. 2020 , 124, 19267-19272		3
316	A simple and sensitive aptasensor based on SERS for trace analysis of kanamycin in milk. 2020 , 14, 3184-3193		12
315	Rational Design of Functional Peptide-Gold Hybrid Nanomaterials for Molecular Interactions. 2020 , 32, e2000866		17
314	Facile and versatile substrate fabrication for surface enhanced Raman spectroscopy using spark discharge generation of Au/Ag nanoparticles. 2020 , 531, 147268		7
313	Plasmonic Electronic Raman Scattering as Internal Standard for Spatial and Temporal Calibration in Quantitative Surface-Enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 9543-9551	6.4	16
312	Energy-Based Plasmonicity Index to Characterize Optical Resonances in Nanostructures. 2020 , 124, 24331-24343		13
311	Surface-Enhanced Raman Spectroscopy as a Tool for Distinguishing Extracellular Vesicles under Autophagic Conditions: A Marker for Disease Diagnostics. 2020 , 124, 10952-10960		8
310	Theranostic Nanoplatfoms of Thiolated Reduced Graphene Oxide Nanosheets and Gold Nanoparticles. 2020 , 10, 5529		7
309	Discriminatory alteration of carbohydrate homeostasis by gold nanoparticles ingestion in. 2020 , 36, 769-778		1
308	SERS-based Nanoplasmonic Exosome Analysis: Enabling Liquid Biopsy for Cancer Diagnosis and Monitoring Progression. 2020 , 14, 231-241		11
307	Multimodal Optical Imaging by Microendoscope. 2020 ,		
306	Long-Range Surface Plasmon Resonance Configuration for Enhancing SERS with an Adjustable Refractive Index Sample Buffer to Maintain the Symmetry Condition. 2020 , 5, 32951-32958		2
305	Assessment of the Theranostic Potential of Gold Nanostars-A Multimodal Imaging and Photothermal Treatment Study. 2020 , 10,		3

304	Sensing Polymer/Paracetamol Interaction with an Independent Component Analysis-Based SERS-MIP Nanosensor. 2020 , 15, 1533-1539	7
303	Surface-Enhanced Raman Spectroscopy: General Introduction. 2020 , 1-42	1
302	Fluorescent nanoparticles for sensing. 2020 , 16, 117-149	5
301	Scalable nanolaminated SERS multiwell cell culture assay. 2020 , 6, 47	8
300	Excitation spectrum, nanoparticles, and their applications in cellular optical imaging. 2020 , 1-8	
299	Emerging Antineoplastic Biogenic Gold Nanomaterials for Breast Cancer Therapeutics: A Systematic Review. 2020 , 15, 3577-3595	34
298	Ribbon of DNA Lattice on Gold Nanoparticles for Selective Drug Delivery to Cancer Cells. 2020 , 132, 14692-14700	
297	Ribbon of DNA Lattice on Gold Nanoparticles for Selective Drug Delivery to Cancer Cells. 2020 , 59, 14584-14592	3
296	Folic acid modified gold nanoparticle for targeted delivery of Sorafenib tosylate towards the treatment of diabetic retinopathy. 2020 , 194, 111151	15
295	Plasmonic and phononic properties of epitaxial conductive transition metal nitrides. 2020 , 22, 084001	12
294	Medical Applications of Raman Spectroscopy. 2020 , 1-21	1
293	Fluorescence for biological logic gates. 2020 , 13, e202000158	14
292	Macroscopic Orientational Gold Nanorods Monolayer Film with Excellent Photothermal Anticounterfeiting Performance. 2020 , 8, 1902082	14
291	Antibody-Gold Nanoparticle Bioconjugates for Biosensors: Synthesis, Characterization and Selected Applications. 2020 , 165, 112370	61
290	Combination of tumour-infarction therapy and chemotherapy via the co-delivery of doxorubicin and thrombin encapsulated in tumour-targeted nanoparticles. 2020 , 4, 732-742	51
289	Smart Gold Nanostructures for Light Mediated Cancer Theranostics: Combining Optical Diagnostics with Photothermal Therapy. 2020 , 7, 1903441	62
288	Quasi-metallic Tungsten Oxide Nanodendrites with High Stability for Surface-Enhanced Raman Scattering. 2020 , 1, 100031	4
287	Gold nanoparticles in cancer diagnosis and therapy. 2020 , 43-58	3

286	Sensitive and label-free shell isolated Ag NPs@Si architecture based SERS active substrate: FDTD analysis and in-situ cellular DNA detection. 2020 , 515, 145955		13
285	Single-molecule analysis of nucleic acid biomarkers - A review. 2020 , 1115, 61-85		15
284	Direct cytoplasm delivery of gold nanoparticles for real-time apoptosis detection. 2020 , 13, 853-860		1
283	Immuno-SERS: from nanotag design to assays and microscopy. 2020 , 485-528		2
282	Controlled Self-Assembly of Metallacycle-Bridged Gold Nanoparticles for Surface-Enhanced Raman Scattering. 2020 , 26, 11695-11700		3
281	Functional nanostructures for drug resistance breast cancer theranostics. 2020 , 131-152		1
280	Statistics assisted analysis of Raman spectra and imaging of human colon cell lines [Label free, spectroscopic diagnostics of colorectal cancer. <i>Journal of Molecular Structure</i> , 2020 , 1218, 128524	3-4	7
279	Reliable Quantification of pH Variation in Live Cells Using Prussian Blue-Caged Surface-Enhanced Raman Scattering Probes. <i>Analytical Chemistry</i> , 2020 , 92, 9574-9582	7.8	12
278	Bimetallic Ag/Au nanoparticles as pH dependent dual sensing probe for Mn(II) ion and ciprofloxacin. 2020 , 155, 104686		12
277	Strongly enhanced local electromagnetic field in mid-infrared and terahertz photodetectors employing a hybrid antenna. 2020 , 10, 015048		3
276	Tuning the Surface Chemistry of Gold Nanoparticles to Specifically Image Glioblastoma Cells Using Surface-Enhanced Raman Spectroscopy. 2020 , 3, 2447-2454		2
275	Molecular-Imprinting-Based Surface-Enhanced Raman Scattering Sensors. 2020 , 5, 601-619		67
274	Detection of thiabendazole fungicide/parasiticide by SERS: Quantitative analysis and adsorption mechanism. 2020 , 517, 145786		21
273	Gap-enhanced Raman tags: fabrication, optical properties, and theranostic applications. 2020 , 10, 2067-2094		46
272	Sensitive and specific detection of tumour cells based on a multivalent DNA nanocreeper and a multiplexed fluorescence supersandwich. 2020 , 56, 3693-3696		3
271	Bioorthogonal SERS Nanotags as a Precision Theranostic Platform for SERS Imaging and Cancer Photothermal Therapy. 2020 , 31, 182-193		22
270	Probing Liquid/Solid Interfaces at the Molecular Level. 2020 , 1-142		1
269	Zwitterionic Polydopamine/Protein G Coating for Antibody Immobilization: Toward Suppression of Nonspecific Binding in Immunoassays.. 2020 , 3, 3631-3639		3

268	Nanotechnology for cancer screening and diagnosis: from innovations to clinical applications. 2020 , 261-289	2
267	Flower-Based Green Synthesis of Metallic Nanoparticles: Applications beyond Fragrance. 2020 , 10,	49
266	Near Infrared-Emitting Nanoparticles for Biomedical Applications. 2020 ,	9
265	Molecular imaging of inflammation - Current and emerging technologies for diagnosis and treatment. 2020 , 211, 107550	23
264	A Fluorescence and Surface-Enhanced Raman Spectroscopic Dual-Modal Aptasensor for Sensitive Detection of Cyanotoxins. 2020 , 5, 1419-1426	39
263	Applications and strategies in nanodiagnosis and nanotherapy in lung cancer. 2021 , 69, 349-364	37
262	SERS hydrogel pellets for highly repeatable and reliable detections of significant small biomolecules in complex samples without pretreatment. 2021 , 327, 128943	7
261	Recent advances in applications of nanoparticles in SERS in vivo imaging. 2021 , 13, e1672	18
260	Spatially offset Raman spectroscopy for biomedical applications. 2021 , 50, 556-568	36
259	DNA sequences-mediated fine-tuning of nanostructures and their plasmonic properties over gold nanorods. 2021 , 228, 166137	1
258	Emerging Plasmonic Assemblies Triggered by DNA for Biomedical Applications. 2021 , 31, 2005709	7
257	Current nanotechnology advances in diagnostic biosensors. 2021 , 4, e10156	1
256	Polymers and inorganic nanoparticles: A winning combination towards assembled nanostructures for cancer imaging and therapy. 2021 , 36, 101046	24
255	DNA-assisted synthesis of Ortho-NanoDimer with sub-nanoscale controllable gap for SERS application. 2021 , 172, 112769	4
254	Renaissance of StBer method for synthesis of colloidal particles: New developments and opportunities. 2021 , 584, 838-865	39
253	Antibacterial and Anticancer Activity of Biologically Synthesized Gold Nanoparticles. 2021 , 163-184	
252	Molecular Imaging Using Raman Scattering. 2021 , 343-357	
251	Intraoperative Assessment and Photothermal Ablation of the Tumor Margins Using Gold Nanoparticles. 2021 , 8, 2002788	12

250	Plasmonic Nanoparticles: Advanced Researches (II). 2021 , 1309, 161-190		1
249	Antibody Phage Display. 2021 ,		
248	Accurate tumor detection using plasmonic-enhanced shifted-excitation Raman difference spectroscopy (SERDS). 2021 , 11, 4090-4102		6
247	Cancer Cell Detection on the Surface of Top-Gated Monolayer Graphene via Raman Spectroscopy.. 2021 , 4, 1493-1498		2
246	Au nanolenses for near-field focusing. 2021 , 12, 6355-6361		3
245	Role of fungal endophytes in the green synthesis of nanoparticles and the mechanism. 2021 , 489-513		0
244	Immunoengineered Nanobead System for the Isolation and Detection of Circulating Tumor Cells.		
243	Nano Metal based Herbal theranostics for Cancer management: coalescing nature's boon with nanotechnological advancement. 2021 ,		
242	Specific Gold Nanoparticles for Fluorescence Imaging of Tumor Angiogenesis. 2021 , 11,		2
241	Role of Gold Nanoparticles in Drug Delivery and Cancer Therapy. 2021 , 124-140		0
240	Superradiative plasmonic nanoantenna biosensors enable sensitive immunoassay using the naked eye. 2021 , 13, 2429-2435		5
239	The Use of Alternative Strategies for Enhanced Nanoparticle Delivery to Solid Tumors. 2021 , 121, 1746-1803		66
238	Molecular recognition in the infection, replication, and transmission of COVID-19-causing SARS-CoV-2: an emerging interface of infectious disease, biological chemistry, and nanoscience. 2021 , 13,		9
237	Exploiting gold nanoparticles for diagnosis and cancer treatments. 2021 , 32, 192001		26
236	Highly Sensitive WO Mesocrystal Raman Scattering Substrate with Large-Area Signal Uniformity. <i>Analytical Chemistry</i> , 2021 , 93, 3138-3145	7.8	11
235	Surface Enhanced Raman Scattering from Single-Walled Carbon Nanotube Decorated on Ag Nanowires. 2021 , 16, 1339-1348		
234	Spatially offset Raman spectroscopy. 2021 , 1,		19
233	Gold nanoparticle detection and quantification in therapeutic MV beams via pair production. 2021 , 66, 064004		2

232	Green synthesis of mono and bimetallic alloy nanoparticles of gold and silver using aqueous extract of for potential applications in sensors. 2021 , 51, 1026-1035	3
231	Numerical investigation of bidirectionally tunable, nanometer-precise, and compact tweezers for screening gold nanoparticles. 2021 , 38, 1235	
230	Optical and Structural Properties of the Gold Nanoparticles Ablated by Laser Ablation in Ethanol for Biosensors. 2021 , 1795, 012065	1
229	Au Films Composed of Nanoparticles Fabricated on Liquid Surfaces for SERS. 2021 , 38, 038102	2
228	From single-particle-like to interaction-mediated plasmonic resonances in graphene nanoantennas. 2021 , 129, 093103	2
227	Targeting Lymphoid Tissues to Promote Immune Tolerance. 2021 , 4, 2100056	1
226	Surface adsorption of hydroxyanthraquinones on CTAB-modified gold nanosurfaces. 2021 , 251, 119408	5
225	Immunoengineered magnetic-quantum dot nanobead system for the isolation and detection of circulating tumor cells. 2021 , 19, 116	2
224	Functionalization of Metal and Carbon Nanoparticles with Potential in Cancer Theranostics. 2021 , 26,	10
223	Surface-enhanced Raman spectroscopic chemical imaging reveals distribution of pectin and its co-localization with xyloglucan inside onion epidermal cell wall. 2021 , 16, e0250650	1
222	Surface-enhanced Raman scattering nanotags for bioimaging. 2021 , 129, 191101	13
221	Graphene Family Nanomaterials in Ocular Applications: Physicochemical Properties and Toxicity. 2021 , 34, 1386-1402	4
220	Raman microspectroscopy and Raman imaging reveal biomarkers specific for thoracic aortic aneurysms. 2021 , 2, 100261	1
219	Programmably tiling rigidified DNA brick on gold nanoparticle as multi-functional shell for cancer-targeted delivery of siRNAs. 2021 , 12, 2928	15
218	Clinical Application of Gold Nanoparticles for Diagnosis and Treatment. 2021 , 10, 60-67	
217	The Golden Age: Shining the Light on Theragnostics. <i>Advanced NanoBiomed Research</i> , 2021 , 1, 2000103	1
216	Synthesis and Spectroscopic Characterization of Platinum Nanoparticles by Plasma Jet Method. 2021 , 20, 2150030	
215	Utilizing the moiré-deflectometry-based detection method improves the detection sensitivity for gold nanoparticles trapped by optical tweezers. 2021 , 38, 2135	

214	Role of plasmonics in detection of deadliest viruses: a review. 2021 , 136, 675	2
213	Dyes as Labels in Biosensing.	
212	Accessing BCG in infected macrophages by antibody-mediated drug delivery system and tracking by surface-enhanced Raman scattering spectroscopy. 2021 , 255, 119660	1
211	Synergistic SERS Enhancement in GaN-Ag Hybrid System toward Label-Free and Multiplexed Detection of Antibiotics in Aqueous Solutions. 2021 , 8, e2100640	4
210	Electrostatic Deposition Kinetics of Colloidal Silver Nanoplates onto Optically and E-Beam Transparent Water-Insoluble Polycationic Films. 2021 , 125, 17870-17880	1
209	Ansamitocin P3-Loaded Gold-NanoCage Conjugated with Immune Checkpoint Inhibitor to Enhance Photo-Chemo-Thermal Maturation of Dendritic Cells for Hepatocellular Carcinoma. 2021 , 13,	1
208	High performance SERS platforms via parametric optimization of the laser-assisted photodeposition of silver and gold nanoparticles. 2021 , 11, 3079	2
207	Optical Magnetic probe for evaluating cancer therapy. <i>Coordination Chemistry Reviews</i> , 2021 , 441, 213978,2	2
206	A review of surface-enhanced Raman spectroscopy in pathological processes. 2021 , 1187, 338978	3
205	Simultaneous Stabilization and Functionalization of Gold Nanoparticles via Biomolecule Conjugation: Progress and Perspectives. 2021 , 13, 42311-42328	8
204	Plexciton in tip-enhanced resonance Stokes and anti-Stokes Raman spectroscopy and in propagating surface plasmon polaritons. 2021 , 493, 126990	9
203	Nanoplasmonic Sandwich Immunoassay for Tumor-Derived Exosome Detection and Exosomal PD-L1 Profiling. 2021 , 6, 3308-3319	4
202	Multifunctional Thio-Stabilized Gold Nanoparticles for Near-Infrared Fluorescence Detection and Imaging of Activated Caspase-3. 2021 , 17, 1182-1193	2
201	Nitrogen-Doped Titanium Monoxide Flexible Membrane for a Low-Cost, Biocompatible, and Durable Raman Scattering Substrate. <i>Analytical Chemistry</i> , 2021 , 93, 12776-12785	7.8 0
200	Silver nanoplates paved PMMA cuvettes as a cheap and re-usable plasmonic sensing device. 2021 , 566, 150701	3
199	Photo-reduced WO ₃ /PAN nanofiber membranes with deposited Ag nanoparticles as efficient SERS substrates. 2021 , 568, 150936	1
198	Integration of a fiber-based cell culture and biosensing system for monitoring of multiple protein markers secreted from stem cells. 2021 , 193, 113531	1
197	Experimental aspects of surface-enhanced Raman scattering for biological applications. 2022 , 81-124	

196	Functional silicon nanowires for cellular binding and internalization. 2022 , 111-136	
195	Surface-enhanced Raman spectroscopy for cancer characterization. 2022 , 373-393	
194	Surface-enhanced Raman scattering nanotags design and synthesis. 2022 , 171-223	1
193	Recent advancement and developments in biomaterial-based nanomedicines, imaging, and cures. 2021 , 87-107	
192	Recent progress of surface-enhanced Raman spectroscopy for subcellular compartment analysis. 2021 , 11, 4872-4893	11
191	Spontaneous Raman and Surface-Enhanced Raman Scattering Bioimaging. 2021 , 3233, 177-195	1
190	Dual-targeting SERS-encoded graphene oxide nanocarrier for intracellular co-delivery of doxorubicin and 9-aminoacridine with enhanced combination therapy. 2021 , 146, 6893-6901	3
189	Signal Generation with Gold Nanoparticles: Photophysical Properties for Sensor and Imaging Applications. 319-349	6
188	Validation of SERS enhancement factor measurements. 2018 , 49, 462-471	10
187	Iron Oxide Nanoparticles and Derivatives for Biomedical Imaging and Application in Cancer Diagnosis and Therapy. 2013 , 1-14	2
186	Systemic Targeting Systems-EPR Effect, Ligand Targeting Systems. 2014 , 61-91	4
185	Nanooncology. 2017 , 321-420	2
184	Nanomaterials: A Promising Tool for Drug Delivery. 2020 , 1-49	1
183	Nanomedicine: Diagnosis, Treatment, and Potential Prospects. 2020 , 297-331	2
182	Polymer-Functionalized NIR-Emitting Nanoparticles: Applications in Cancer Theranostics and Treatment of Bacterial Infections. 2020 , 231-277	2
181	Biomedical Applications of Anisotropic Gold Nanoparticles. 2017 , 399-426	3
180	Functional DNA-Integrated Nanomaterials for Biosensing. 2013 , 277-305	5
179	Surface-Enhanced Raman Scattering Nanoprobes. 2014 , 75-95	1

178	SERS Biosensing and Bioimaging: Design and Applications in Cancer Diagnostics. 2017 , 345-364	1
177	Nanoparticle-Enabled Optical Endoscopy: Extending the Frontiers of Diagnosis and Treatment. 2016 , 273-305	1
176	Gold nanoparticles: An advanced drug delivery and diagnostic tool. 2020 , 609-669	3
175	The Scientometric Overview in Cancer Targeting. 2016 , 871-895	4
174	Recent advances in optical biosensors for the detection of cancer biomarker α -fetoprotein (AFP). 2020 , 128, 115920	14
173	In Situ Detection of Endotoxin in Bacteriostatic Process by SERS Chip Integrated Array Microchambers within Bioscaffold Nanostructures and SERS Tags. 2020 , 12, 28985-28992	13
172	The inorganic chemistry of surface enhanced Raman scattering (SERS). 1-21	10
171	Dynamics of weak interactions in the ligand layer of γ -mercaptobenzoic acid protected gold nanoclusters Au(-MBA) and Au(-MBA). 2020 , 12, 23859-23868	2
170	Fiber-optic plasmonic probe with nanogap-rich Au nanoislands for on-site surface-enhanced Raman spectroscopy using repeated solid-state dewetting. 2019 , 24, 1-6	8
169	Methodology of mycobacteria tuberculosis bacteria detection by Raman spectroscopy. 2018 ,	1
168	Surface-enhanced Raman spectroscopy of organoluminophores adsorbed on quartz surfaces modified by hydrosols of silver and gold nanoparticles. 2019 ,	1
167	Introduction. 2014 , 16-45	1
166	Preparation of colloidal gold immunochromatographic strip for detection of Paragonimiasis skrjabini. 2014 , 9, e92034	24
165	A real-time clinical endoscopic system for intraluminal, multiplexed imaging of surface-enhanced Raman scattering nanoparticles. 2015 , 10, e0123185	79
164	Applications of gold nanoparticles in medicine and therapy. 2018 , 6,	6
163	Design and characterization of nanostructured SERS substrates based on gold nanostars. 2017 , 20, 41-47	5
162	The genetically engineered drug rhCNB induces apoptosis via a mitochondrial route in tumor cells. 2017 , 8, 65876-65888	2
161	Metalik nanopartikllerin hedeflendirilmesi. 71-81	0

160	Iron Oxide Nanoparticles for Breast Cancer Theranostics. 2019 , 20, 446-456	18
159	Correlation between in vitro and in vivo Data of Radiolabeled Peptide for Tumor Targeting. 2019 , 19, 950-960	1
158	A Review on Nanomedicinal and Nanosensing Potential of Nanoparticles. 2014 , 8, 58-84	4
157	Research perspectives: gold nanoparticles in cancer theranostics. 2013 , 3, 284-91	35
156	Intracellular Behavior of Nanoparticles Based on their Physicochemical Properties. 2015 , 10-35	0
155	Biomedical Applications of Gold Nanoparticles. 2018 , 837-858	2
154	Nanoparticle Electromagnetic Properties for Sensing Applications. 2012 , 01, 9-14	10
153	An Study on the Cytotoxicity and Genotoxicity of Silver Sulfide Quantum Dots Coated with Meso-2,3-dimercaptosuccinic Acid. 2019 , 16, 282-291	6
152	Controlled Clustering of Gold Nanoparticles using Solid-support for Surface-enhanced Raman Spectroscopic Probes. 2014 , 35, 941-944	1
151	Size Control of Gold Nanoparticles Synthesized by Laser Ablation in Liquid Media. 2012 , 2012, 1-5	13
150	Broadband and Highly Directional Visible Light Scattering by Laser-Splashed Lossless TiO Nanoparticles. 2021 , 26,	
149	Recyclable Ag-Deposited TiO SERS Substrate for Ultrasensitive Malachite Green Detection. 2021 , 6, 27271-27278	
148	Vibrational two-photon microscopy for tissue imaging: Short-wave infrared surface-enhanced resonance hyper-Raman scattering. 2021 , e202100158	1
147	Clinical Application of Nanotechnology. 2011 , 54, 185	1
146	Molecular Imaging. 2011 , 305-328	
145	SERS Spectroscopy and Microscopy. 2012 , 553-586	1
144	Immunoassays and Imaging Based on Surface-Enhanced Raman Spectroscopy. 2012 , 261-289	
143	Diagnostics and treatments. 2012 , 22-36	

- 142 Plasmonics for Enhanced Vibrational Signatures. **2013**, 103-124 2
- 141 Model of Multi-Source Nanonetworks for the Detection of BRCA1 DNA Alterations Based on LSPR Phenomenon. **2013**, 02, 301-312 2
- 140 Nanooncology. **2014**, 393-472
- 139 Environmentally Responsive Surface-Enhanced Raman Scattering Substrates for High Sensitivity. **2013**, 34, 3195-3196
- 138 Molecular Imaging in Urology. **2015**, 265-280
- 137 Functional Metal Nanocrystals for Biomedical Applications. **2015**, 1-32
- 136 Nanomedicine. **2015**, 64-89
- 135 SERS for Sensitive Biosensing and Imaging. **2015**, 1-32
- 134 Gold Nanorods. **2015**, 1-16 0
- 133 Assessment of Efficacy of 5 nm-class Nano Gold Essence Cosmetics. **2016**, 14, 259-266 1
- 132 Functional Metal Nanocrystals for Biomedical Applications. **2017**, 809-840 1
- 131 Pharmaceutical and Medical Applications of Nanofibers. **2017**, 1333-1357
- 130 SERS for Sensitive Biosensing and Imaging. **2017**, 29-60
- 129 Pharmaceutical and Medical Applications of Nanofibers. **2017**, 338-363
- 128 Nanomedicine. **2017**, 1258-1285
- 127 Biomedical Applications of Gold Nanoparticles. **2017**, 74-101 0
- 126 In Vivo Sensing Using SERS Nanosensors. **2017**, 695-702
- 125 Gold Nanorods for Diagnostics and Photothermal Therapy of Cancer. **2017**, 627-650

124	Introduction. 2018 , 1-8	1
123	Intracellular Behavior of Nanoparticles Based on their Physicochemical Properties. 2018 , 1101-1127	
122	Robust and brilliant Raman tags based on core-satellite assemblies for brain tumor cell imaging. 2018 ,	
121	Surface enhanced Raman spectroscopy for malaria diagnosis and intradermal measurements. 2018 ,	
120	Nanodeliverables. 2019 , 15-35	
119	Intra-operative Tumor Tracking Using Optical Flow and Fluorescent Imaging. 2019 , 79-84	
118	Predicting treatment outcome and enhancing immunotherapy with anti-PDL1 gold nanoparticles. 2019 ,	
117	Biomedical Nano Tools: A Potential New Paradigm for Immunoassays and Immune Detection. 2019 , 9, 98-107	
116	Application of Gold Nanostructures in Biomedicine. 1-44	
115	Plasmon-enhanced fluorescence of nanoparticle-dye-protein complex as perspective approach for increase in fluorescent labeling effectiveness. 2019 ,	
114	Persistence, Toxicity, and Biodegradation of Gold- and Iron Oxide-Based Nanoparticles in the Living Systems. 2020 , 447-478	
113	Biological perspectives of hybrid nanostructures. 2020 , 33-55	
112	Monte Carlo characterization of the gold nanoparticles dose enhancement and estimation of the physical interactions weight in dose enhancement mechanism. 2020 , 26, 217-223	0
111	Design and synthesis of gold nanostars-based SERS nanotags for bioimaging applications.. 2022 , 6, 10-30	11
110	Advances in Surface Enhanced Raman Spectroscopy for Imaging in Oncology.. 2022 , 6, 31-49	3
109	Nanosensors Based on DNA as an Emerging Technology for the Detection of Disease. 2020 , 91-120	
108	Recent Developments in Nanocarrier-Based Nutraceuticals for Therapeutic Purposes. 2020 , 371-391	0
107	Raman Spectroscopy Techniques for Skin Cancer Detection and Diagnosis. 2020 , 359-393	0

106	Nanobiosensor: Current Trends and Applications. 2020 , 389-409	4
105	Therapeutic strategies and potential implications of silver nanoparticles in the management of skin cancer. 2020 , 9, 1500-1521	10
104	Raman spectroscopy and gold thin film for biosensing and detection. 2020 ,	
103	Toward Sensitive and Reliable Surface-Enhanced Raman Scattering Imaging: From Rational Design to Biomedical Applications. 2021 , 6, 3912-3932	5
102	In vivo and ex vivo applications of gold nanoparticles for biomedical SERS imaging. 2012 , 2, 232-41	25
101	Multiplexing SERS nanotags for the imaging of differentiated mouse embryonic stem cells (mESC) and detection of teratoma in vivo. 2014 , 4, 114-24	4
100	Targeted-TERS detection of integrin receptors on human cancer cells. 2016 , 3,	2
99	Aptamer-based surface-enhanced resonance Raman scattering assay on a paper fluidic platform for detection of cardiac troponin I. 2020 , 25,	1
98	Noninvasive and Highly Multiplexed Five-Color Tumor Imaging of Multicore Near-Infrared Resonant Surface-Enhanced Raman Nanoparticles. 2021 ,	3
97	Emergence of Surface-Enhanced Raman Scattering Probes in Near-Infrared Windows for Biosensing and Bioimaging. <i>Analytical Chemistry</i> , 2021 ,	7.8 6
96	Advanced technologies for single-cell in situ protein profiling. 2022 , 65, 48	4
95	Dynamic Protein Corona of Gold Nanoparticles with an Evolving Morphology. 2021 , 13, 58238-58251	3
94	Flexible Plasmonic Biosensors for Healthcare Monitoring: Progress and Prospects. 2021 ,	13
93	Emerging Application of Magnetic Nanoparticles for Diagnosis and Treatment of Cancer. 2021 , 13,	8
92	Raman microspectroscopy for microbiology. 2021 , 1,	9
91	Multiplexed Liquid Biopsy and Tumor Imaging Using Surface-Enhanced Raman Scattering. 2021 , 11,	2
90	Selectively Tracking Nanoparticles in Aquatic Plant Using Core-Shell Nanoparticle-Enhanced Raman Spectroscopy Imaging. 2021 ,	2
89	Systematic Review of Cancer Targeting by Nanoparticles Revealed a Global Association between Accumulation in Tumors and Spleen. 2021 , 22,	5

88	Microemulsion Based Nanostructures for Drug Delivery. 2022 , 3,	1
87	Aptamer-based surface-enhanced resonance Raman scattering assay on a paper fluidic platform for detection of cardiac troponin I. 2020 , 25,	7
86	SERS Tags for Biomedical Detection and Bioimaging.. 2022 , 12, 1870-1903	6
85	Acridine-based dyes as high-performance near-infrared Raman reporter molecules for cell imaging.. 2022 , 12, 3380-3385	
84	Plasmonic Rare-Earth Nanosheets as Surface Enhanced Raman Scattering Substrates with High Sensitivity and Stability for Multicomponent Analysis.. 2022 ,	2
83	Visible-light and near-infrared fluorescence and surface-enhanced Raman scattering point-of-care sensing and bio-imaging: a review.. 2021 ,	10
82	Rapid testing for coronavirus disease 2019 (COVID-19).. 2022 , 12, 1-12	2
81	Widefield SERS for High-Throughput Nanoparticle Screening.	
80	Widefield SERS for High-Throughput Nanoparticle Screening.. 2022 ,	2
79	Label-free and ultrasensitive SERS detection of pesticide residues using 3D hot-junction of a Raman enhancing montmorillonite/silver nanoparticles nanocomposite.. 2022 ,	0
78	Graphene-Based Nanomaterials for Biomedical Imaging.. 2022 , 1351, 125-148	0
77	Raman Spectroscopy: A Personalized Decision-Making Tool on Clinicians' Hands for In Situ Cancer Diagnosis and Surgery Guidance.. 2022 , 14,	1
76	A Rational Designed Bioorthogonal Surface-Enhanced Raman Scattering Nanoprobe for Quantitatively Visualizing Endogenous Hydrogen Sulfide in Single Living Cells.. 2022 ,	3
75	Biological SERS-active sensor platform based on flexible silk fibroin film and gold nanoislands.. 2022 , 30, 7782-7792	1
74	Orthogonal gap-enhanced Raman tags for interference-free and ultrastable surface-enhanced Raman scattering. 2022 ,	0
73	PLGA-Gold Nanocomposite: Preparation and Biomedical Applications.. 2022 , 14,	0
72	Airy-Talbot plasmon: an accelerating self-imaging surface wave.. 2022 , 47, 1887-1890	1
71	Three Millennia of Nanocrystals.. 2022 ,	8

- 70 Raman Spectroscopy: A Novel Technology for Gastric Cancer Diagnosis.. **2022**, 10, 856591 0
- 69 Surface Plasmon Coupled Directional Emission for Integrated Fluorescence-Raman Biodetection: a Proof-of-Concept Study. 0
- 68 Application of unlaminated EBT3 film dosimeter for quantification of dose enhancement using silver nanoparticle-embedded alginate film.. **2022**, 0
- 67 Green nanotechnology: An innovative pathway towards biocompatible and medically relevant gold nanoparticles. **2022**, 70, 103256 1
- 66 Robust Encapsulation of Biocompatible Gold Nanosphere Assemblies for Bioimaging via Surface Enhanced Raman Scattering. 2102635 0
- 65 Polystyrene nanoplastics demonstrate high structural stability in vivo: A comparative study with silica nanoparticles via SERS tag labeling.. **2022**, 134567 0
- 64 Development and evaluation of a gold nanourchin (GNU)-based sandwich architecture for SERS immunosensing in liquid.. **2022**, 273, 121069 2
- 63 Therapeutic Nanoparticles: Advantages and Toxicity. **2022**, 1, 19-37 0
- 62 Functionalized Materials for Miniaturized Analytical Devices. **2022**, 181-195 0
- 61 Surface-enhanced Raman spectroscopy. **2021**, 1, 19 19
- 60 Quantitative Surface-Enhanced Spectroscopy.. **2021**, 2 2
- 59 NANO-BASED THERAPY FOR TREATMENT OF SKIN CARCINOMA. **2021**, 58, 7-17 0
- 58 Linearly Polarized X-ray Fluorescence Computed Tomography with a Photon Counting Detector. **2022**, 195-214 0
- 57 Nanocarriers in drug delivery: Classification, properties, and targeted drug delivery applications. **2022**, 1-23 0
- 56 A tailorable and recyclable TiO₂ NFSF/Ti@Ag NPs SERS substrate fabricated by a facile method and its applications in prohibited fish drugs detection. 1 0
- 55 Enzyme-triggered click chemistry combined with surface-enhanced Raman spectroscopy for the simple and sensitive detection of alkaline phosphatase activity from complex biological samples.. **2022**, 1 1
- 54 MicroRNA-21 expression in single living cells revealed by fluorescence and SERS dual-response microfluidic droplet platform.. **2022**, 0 0
- 53 Emerging role of nanoparticles in the diagnostic imaging of gastrointestinal cancer.. **2022**, 0 0

52	A label-free technique to quantify and visualize gold nanoparticle accumulation at the single-cell level.. 2022 , 302, 134857		
51	Direct Visualization and Identification of Membrane Voltage-Gated Sodium Channels from Human iPSC-Derived Neurons by Multiple Imaging and Light Enhanced Spectroscopy. <i>Small Methods</i> , 2200402	12.8	
50	Plasmonic rhenium trioxide self-assembled microtubes for highly sensitive, stable and reproducible surface-enhanced raman spectroscopy detection. <i>Chinese Chemical Letters</i> , 2022 ,	8.1	1
49	Plasmonic Nanoprobes for SERS-Based Theranostics Applications. <i>Lecture Notes in Nanoscale Science and Technology</i> , 2022 , 223-244	0.3	
48	Photoinduced Electron Transfer in Metalloporphyrins. <i>Journal of Molecular Structure</i> , 2022 , 133591	3.4	
47	Zwitterionic Osmolytes Revive Surface Charges under Salt Stress via Dual Mechanisms. <i>Journal of Physical Chemistry Letters</i> , 2022 , 13, 5660-5668	6.4	
46	Flower-like Gold Nanoparticles for In Situ Tailoring Luminescent Molecules for Synergistic Enhanced Chemiluminescence. <i>Analytical Chemistry</i> ,	7.8	0
45	Linezolid nanoAntibiotics and SERS-nanoTags based on polymeric cyclodextrin bimetallic core-shell nanoarchitectures. <i>Carbohydrate Polymers</i> , 2022 , 293, 119736	10.3	1
44	Boosting the Brightness of Thiolated Surface-Enhanced Raman Scattering Nanoprobes by Maximal Utilization of the Three-Dimensional Volume of Electromagnetic Fields. <i>Journal of Physical Chemistry Letters</i> , 6496-6502	6.4	1
43	A Multifunctional Nanoplatform Based on Graphene Quantum Dots-Cobalt Ferrite for Monitoring of Drug Delivery and Fluorescence/Magnetic Resonance Bimodal Cellular Imaging. <i>Advanced NanoBiomed Research</i> , 2200044	0	1
42	Development of SERS tags for human diseases screening and detection. <i>Coordination Chemistry Reviews</i> , 2022 , 470, 214711	23.2	0
41	In vivo imaging with SERS nanoprobes. 2022 , 199-235		
40	Quantitative Study of Plasmonic Gold Nanostar Geometry Toward Optimal SERS Detection.		0
39	Optical Immunoassays Methods in Protein Analysis: An Overview. 2022 , 10, 326		1
38	Electrostimulus-triggered reactive oxygen species level in organelles revealed by organelle-targeting SERS nanoprobes.		
37	Engineering nanosystems to overcome barriers to cancer diagnosis and treatment. 2022 , 189, 114482		2
36	Mini review of synthesis strategies of silver nanowires and their applications. 2022 , 50, 100663		2
35	The Role of Nanotechnology for Diagnostic and Therapy Strategies in Lung Cancer. 2022 ,		0

34	A SERS and fluorescence dual-channel microfluidic droplet platform for exploring telomerase activity at the single-cell level.	0
33	SERS probes and tags for biomedical applications. 2022 , 89-114	0
32	Gold nanoparticles: current and upcoming biomedical applications in sensing, drug, and gene delivery. 2022 , 58, 10886-10895	2
31	Recent Advances in Agglomeration Detection and Dual-Function Application of Surface-Enhanced Raman Scattering (SERS). 2022 , 18, 1257-1275	0
30	The Potential of Antibody Technology and Silver Nanoparticles for Enhancing Photodynamic Therapy for Melanoma. 2022 , 10, 2158	0
29	Tunisian hypersaline sediments to set up suitable halotolerant microbial bioanodes for electrostimulated biodegradation of thiabendazole. 10,	0
28	SERS monitoring of photoinduced-enhanced oxidative stress amplifier on Au@carbon dots for tumor catalytic therapy. 2022 , 11,	1
27	Molecularly Imprinted and Cladded Nanotags Enable Specific SERS Bioimaging of Tyrosine Phosphorylation.	0
26	Poly- l -lysine conjugated gold nanorod probe to monitor antimicrobial activity and mechanism of action by surface-enhanced Raman spectroscopy.	0
25	Raman nanoprobe for in vivo medical applications. 2022 ,	0
24	Precision Nanotoxicology in Drug Development: Current Trends and Challenges in Safety and Toxicity Implications of Customized Multifunctional Nanocarriers for Drug-Delivery Applications. 2022 , 14, 2463	0
23	Noble Metal Nanoparticles for Point-of-Care Testing: Recent Advancements and Social Impacts. 2022 , 9, 666	1
22	Molecular Planarization of Raman Probes to Avoid Background Interference for High-Precision Intraoperative Imaging of Tumor Micrometastases and Lymph Nodes.	0
21	Metal nanoparticles-assisted early diagnosis of diseases. 2022 , 8, 100104	1
20	Thermal treatment induced the surface enhanced Raman scattering of WO ₃ -TiO ₂ heterogeneous composite films. 2023 , 613, 155975	0
19	Surface-enhanced Raman scattering (SERS) nanoparticles for biodiagnostics, bioimaging, and spectroscopy-guided cancer surgery. 2022 ,	0
18	Nanomaterials meet surface-enhanced Raman scattering towards enhanced clinical diagnosis: a review. 2022 , 20,	0
17	Q-factor enhanced resonator biosensor optimized by adaptive genetic algorithm for glucose detection.	0

- 16 Preparation and Evaluation of ^{64}Cu -Radiolabelled Dual-Ligand Multifunctional Gold Nanoparticles for Tumor Theragnosis. **2023**, 16, 71 ○
- 15 Preserving the shape of silver nanocrystals. ○
- 14 Trimer structures formed by target-triggered AuNPs self-assembly inducing electromagnetic hot spots for SERS-fluorescence dual-signal detection of intracellular miRNAs. **2023**, 224, 115051 ○
- 13 Design and Synthesis of SERS Materials for In Vivo Molecular Imaging and Biosensing. 2202051 1
- 12 Influence of Nanodiamonds on Enhancement of Fluorescence of Products of the Tryptophan-Phototransformation Reaction in the Presence of Halogenated Carbohydrates. ○
- 11 Selective treatment of tumors using nanocarriers. **2023**, 261-276 ○
- 10 Metallic nanoparticles for theranostic application. **2023**, 351-387 ○
- 9 Homogeneous Electrochemical Immunoassay Using an Aggregation-Collision Strategy for Alpha-Fetoprotein Detection. **2023**, 95, 3045-3053 ○
- 8 Ag/ZIF-8 Substrate with Enhanced SERS via the Plasmonic Nanogap and MOF-Enabled Molecular Preconcentration Effect. **2023**, 127, 3542-3550 ○
- 7 Analyzing the Electrochemical Interaction of the Angiogenesis Inhibitor Batimastat by Surface-Enhanced Raman Spectroscopy. **2023**, 11, 128 ○
- 6 Molecular imaging: design mechanism and bioapplications. ○
- 5 Optical biosensing systems for a biological living body. ○
- 4 The Challenges of Implementing Surface-enhanced Raman Scattering in Studies of Biological Systems. 1-48 ○
- 3 Bioaccumulation of CdSe Quantum Dots Show Biochemical and Oxidative Damage in Wistar Rats. **2023**, 2023, 1-13 ○
- 2 Leveraging Advancement in Robotics in the Treatment of Cancer. **2023**, 365-404 ○
- 1 Recent development of surface-enhanced Raman scattering for biosensing. **2023**, 21, ○