

Xiaodi Su

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121
papers

4,687
citations

38
h-index

64
g-index

124
ext. papers

5,062
ext. citations

6
avg, IF

5.71
L-index

#	Paper	IF	Citations
121	Carbon-Supported Pt and PtRu Nanoparticles as Catalysts for a Direct Methanol Fuel Cell. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 8234-8240	3.4	599
120	Colorimetric detection of DNA using unmodified metallic nanoparticles and peptide nucleic acid probes. <i>Analytical Chemistry</i> , 2009 , 81, 6122-9	7.8	187
119	Surface plasmon resonance spectroscopy and quartz crystal microbalance study of streptavidin film structure effects on biotinylated DNA assembly and target DNA hybridization. <i>Langmuir</i> , 2005 , 21, 348-54	4	159
118	Comparison of surface plasmon resonance spectroscopy and quartz crystal microbalance techniques for studying DNA assembly and hybridization. <i>Biosensors and Bioelectronics</i> , 2005 , 21, 719-26	11.8	137
117	Detection of point mutation and insertion mutations in DNA using a quartz crystal microbalance and MutS, a mismatch binding protein. <i>Analytical Chemistry</i> , 2004 , 76, 489-94	7.8	123
116	Preparation and characterization of Pt/C and PtRu/C electrocatalysts for direct ethanol fuel cells. <i>Journal of Power Sources</i> , 2005 , 149, 1-7	8.9	123
115	Control of metal nanoparticles aggregation and dispersion by PNA and PNA-DNA complexes, and its application for colorimetric DNA detection. <i>ACS Nano</i> , 2009 , 3, 2751-9	16.7	118
114	Antimicrobial functionalization of silicone surfaces with engineered short peptides having broad spectrum antimicrobial and salt-resistant properties. <i>Acta Biomaterialia</i> , 2014 , 10, 258-66	10.8	110
113	Comparative study of random and oriented antibody immobilization as measured by dual polarization interferometry and surface plasmon resonance spectroscopy. <i>Langmuir</i> , 2012 , 28, 997-1004	4	103
112	QCM-D analysis of binding mechanism of phage particles displaying a constrained heptapeptide with specific affinity to SiO ₂ and TiO ₂ . <i>Analytical Chemistry</i> , 2006 , 78, 4872-9	7.8	100
111	DNA-templated silver nanoclusters: structural correlation and fluorescence modulation. <i>Nanoscale</i> , 2016 , 8, 17729-17746	7.7	94
110	Cyclodextrin functionalized mesoporous silica films on quartz crystal microbalance for enhanced gas sensing. <i>Sensors and Actuators B: Chemical</i> , 2006 , 119, 220-226	8.5	75
109	Understanding ligand binding effects on the conformation of estrogen receptor alpha-DNA complexes: a combinational quartz crystal microbalance with dissipation and surface plasmon resonance study. <i>Biophysical Journal</i> , 2007 , 92, 4415-23	2.9	73
108	Evaluation of two- and three-dimensional streptavidin binding platforms for surface plasmon resonance spectroscopy studies of DNA hybridization and protein-DNA binding. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 2700-6	11.8	70
107	Self-assembled monolayer-based piezoelectric crystal immunosensor for the quantification of total human immunoglobulin E. <i>Analytical Biochemistry</i> , 1999 , 273, 66-72	3.1	69
106	Study of single-stranded DNA binding protein-nucleic acids interactions using unmodified gold nanoparticles and its application for detection of single nucleotide polymorphisms. <i>Analytical Chemistry</i> , 2011 , 83, 4251-7	7.8	68
105	Characterization of protein-DNA interactions using surface plasmon resonance spectroscopy with various assay schemes. <i>Biochemistry</i> , 2007 , 46, 2127-35	3.2	66

104	Nanosized Pt and PtRu colloids as precursors for direct methanol fuel cell catalysts. <i>Journal of Materials Chemistry</i> , 2003 , 13, 3049		63
103	PEGylated anti-MUC1 aptamer-doxorubicin complex for targeted drug delivery to MCF7 breast cancer cells. <i>Macromolecular Bioscience</i> , 2011 , 11, 1331-5	5.5	62
102	Sensing of transcription factor through controlled-assembly of metal nanoparticles modified with segmented DNA elements. <i>ACS Nano</i> , 2010 , 4, 5101-10	16.7	61
101	Fine-tuning of gold nanorod dimensions and plasmonic properties using the Hofmeister effects. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 53-61	7.1	60
100	Gold-nanoparticle-based assay for instantaneous detection of nuclear hormone receptor-response elements interactions. <i>Analytical Chemistry</i> , 2010 , 82, 2759-65	7.8	56
99	Probing the interaction between peptides and metal oxides using point mutants of a TiO ₂ -binding peptide. <i>Langmuir</i> , 2008 , 24, 6852-7	4	56
98	Enzyme-based colorimetric detection of nucleic acids using peptide nucleic acid-immobilized microwell plates. <i>Analytical Chemistry</i> , 2007 , 79, 7192-7	7.8	56
97	Protein-based fluorescent metal nanoclusters for small molecular drug screening. <i>Chemical Communications</i> , 2014 , 50, 13805-8	5.8	55
96	SPR study of DNA hybridization with DNA and PNA probes under stringent conditions. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 1717-22	11.8	55
95	Surface plasmon resonance spectroscopy study of interfacial binding of thrombin to antithrombin DNA aptamers. <i>Journal of Colloid and Interface Science</i> , 2007 , 315, 99-106	9.3	55
94	Design and Application of Piezoelectric Quartz Crystal-based Immunoassay.. <i>Analytical Sciences</i> , 2000 , 16, 107-114	1.7	55
93	Piezoelectric quartz crystal based label-free analysis for allergy disease. <i>Biosensors and Bioelectronics</i> , 2000 , 15, 629-39	11.8	55
92	Comparison of DNA, aminoethylglycyl PNA and pyrrolidinyl PNA as probes for detection of DNA hybridization using surface plasmon resonance technique. <i>Biosensors and Bioelectronics</i> , 2010 , 25, 1064-9	11.8	54
91	Comparison of surface plasmon resonance spectroscopy and quartz crystal microbalance for human IgE quantification. <i>Sensors and Actuators B: Chemical</i> , 2004 , 100, 309-314	8.5	54
90	Combinational application of surface plasmon resonance spectroscopy and quartz crystal microbalance for studying nuclear hormone receptor-response element interactions. <i>Analytical Chemistry</i> , 2006 , 78, 5552-8	7.8	48
89	Quartz tuning fork biosensor. <i>Biosensors and Bioelectronics</i> , 2002 , 17, 111-7	11.8	48
88	Tuning the cellular uptake properties of luminescent heterobimetallic iridium(III)-ruthenium(II) DNA imaging probes. <i>Chemistry - A European Journal</i> , 2014 , 20, 14004-11	4.8	43
87	Enzyme immobilization on poly(ethylene-co-acrylic acid) films studied by quartz crystal microbalance with dissipation monitoring. <i>Journal of Colloid and Interface Science</i> , 2005 , 287, 35-42	9.3	43

86	Context-dependent adsorption behavior of cyclic and linear peptides on metal oxide surfaces. <i>Langmuir</i> , 2009 , 25, 1588-93	4	42
85	Sensing of circulating cancer biomarkers with metal nanoparticles. <i>Nanoscale</i> , 2019 , 11, 22152-22171	7.7	41
84	Multiplatform genome-wide identification and modeling of functional human estrogen receptor binding sites. <i>Genome Biology</i> , 2006 , 7, R82	18.3	41
83	Au nanoparticle- and silver-enhancement reaction-amplified microgravimetric biosensor. <i>Chemical Communications</i> , 2001 , 755-756	5.8	38
82	Surface modification studies of edge-oriented molybdenum sulfide nanosheets. <i>Langmuir</i> , 2004 , 20, 6914-20	4	37
81	Recent advances in non-toxic quantum dots and their biomedical applications. <i>Progress in Natural Science: Materials International</i> , 2019 , 29, 628-640	3.6	37
80	Determination of liquid density with a low frequency mechanical sensor based on quartz tuning fork. <i>Sensors and Actuators B: Chemical</i> , 2002 , 84, 123-128	8.5	35
79	Femtomol SPR detection of DNA-PNA hybridization with the assistance of DNA-guided polyaniline deposition. <i>Biosensors and Bioelectronics</i> , 2008 , 23, 1715-20	11.8	34
78	Sensors, Biosensors, and Analytical Technologies for Aquaculture Water Quality. <i>Research</i> , 2020 , 2020, 8272705	7.8	34
77	Nanomaterials-based biosensors for detection of microorganisms and microbial toxins. <i>Biotechnology Journal</i> , 2017 , 12,	5.6	32
76	Affinity analysis of DNA aptamer-peptide interactions using gold nanoparticles. <i>Analytical Biochemistry</i> , 2012 , 421, 725-31	3.1	31
75	High sensitivity molecule detection by plasmonic nanoantennas with selective binding at electromagnetic hotspots. <i>Nanoscale</i> , 2014 , 6, 1416-22	7.7	30
74	Surface plasmon resonance study of cooperative interactions of estrogen receptor alpha and transcriptional factor Sp1 with composite DNA elements. <i>Analytical Chemistry</i> , 2009 , 81, 3344-9	7.8	30
73	DNA assembly on streptavidin modified surface: A study using quartz crystal microbalance with dissipation or resistance measurements. <i>Sensors and Actuators B: Chemical</i> , 2008 , 131, 371-378	8.5	30
72	Serological determination of Helicobacter pylori infection using sandwiched and enzymatically amplified piezoelectric biosensor. <i>Analytica Chimica Acta</i> , 2001 , 429, 27-36	6.6	30
71	Phthalocyanine/silica hybrid films on QCM for enhanced nitric oxide sensing. <i>Sensors and Actuators B: Chemical</i> , 2008 , 129, 184-187	8.5	29
70	Serum Albumin Binding Inhibits Nuclear Uptake of Luminescent Metal-Complex-Based DNA Imaging Probes. <i>Chemistry - A European Journal</i> , 2015 , 21, 11865-71	4.8	28
69	Functionalized mesoporous silica films for gas sensing applications. <i>Journal of Electroceramics</i> , 2006 , 16, 503-505	1.5	28

68	Covalent DNA immobilization on polymer-shielded silver-coated quartz crystal microbalance using photobiotin-based UV irradiation. <i>Biochemical and Biophysical Research Communications</i> , 2002 , 290, 962-6	3.4	28
67	Nanomaterial-based biosensors using dual transducing elements for solution phase detection. <i>Analyst, The</i> , 2015 , 140, 2916-43	5	27
66	Antibody/antigen affinity behavior in liquid environment with electrical impedance analysis of quartz crystal microbalances. <i>Biophysical Chemistry</i> , 2002 , 99, 31-41	3.5	27
65	Determination of monoenzyme- and bienzyme-stimulated precipitation by a cuvette-based surface plasmon resonance instrument. <i>Analytical Biochemistry</i> , 2001 , 299, 241-6	3.1	27
64	Polyethylene-co-acrylic Acid as Coating for Biosensor Application: A Quartz Crystal Microbalance Study. <i>Langmuir</i> , 2002 , 18, 9932-9936	4	27
63	A plasmonic nanosensor with inverse sensitivity for circulating cell-free DNA quantification. <i>Chemical Communications</i> , 2015 , 51, 14524-7	5.8	26
62	Epitope-Functionalized Gold Nanoparticles for Rapid and Selective Detection of SARS-CoV-2 IgG Antibodies. <i>ACS Nano</i> , 2021 ,	16.7	26
61	Four-Channel QCA Using Mesoporous Silica Films for Gas Sensing Applications. <i>IEEE Sensors Journal</i> , 2006 , 6, 1676-1682	4	25
60	Soft-Lithography-Mediated Submicrometer Patterning of Self-Assembled Monolayer of Hemoglobin on ITO Surfaces. <i>Langmuir</i> , 2000 , 16, 5221-5226	4	24
59	Piezoelectric quartz crystal based screening test for porcine reproductive and respiratory syndrome virus infection in pigs. <i>Analyst, The</i> , 2000 , 125, 725-730	5	24
58	Conductive polymer-modified boron-doped diamond for DNA hybridization analysis. <i>Chemical Physics Letters</i> , 2004 , 388, 483-487	2.5	23
57	Piezoelectric quartz crystal based veterinary diagnosis for Salmonella enteritidis infection in chicken and egg. <i>Sensors and Actuators B: Chemical</i> , 2001 , 75, 29-35	8.5	23
56	DNA-Directed Assembly of Nanogold Dimers: A Unique Dynamic Light Scattering Sensing Probe for Transcription Factor Detection. <i>Scientific Reports</i> , 2015 , 5, 18293	4.9	23
55	Surface plasmon resonance study of PNA interactions with double-stranded DNA. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 1918-23	11.8	21
54	Dinuclear osmium(II) probes for high-resolution visualisation of cellular DNA structure using electron microscopy. <i>Chemical Communications</i> , 2014 , 50, 14494-7	5.8	20
53	Mesoporous silica thin films prepared by argon plasma treatment of sol-gel-derived precursor. <i>Applied Surface Science</i> , 2005 , 245, 304-309	6.7	20
52	Fast screening of ligand-protein interactions based on ligand-induced protein stabilization of gold nanoparticles. <i>Analytical Chemistry</i> , 2014 , 86, 2361-70	7.8	19
51	UV-vis spectroscopy and dynamic light scattering study of gold nanorods aggregation. <i>Nucleic Acid Therapeutics</i> , 2013 , 23, 273-80	4.8	19

50	Tunable plasmonic colorimetric assay with inverse sensitivity for extracellular DNA quantification. <i>Chemical Communications</i> , 2018 , 54, 11260-11263	5.8	16
49	Hybrid sensor using gold nanoparticles and conjugated polyelectrolytes for studying sequence rule in protein-DNA interactions. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 12725-34	9.5	16
48	A study of DNA design dependency of segmented DNA-induced gold nanoparticle aggregation towards versatile bioassay development. <i>RSC Advances</i> , 2013 , 3, 21604	3.7	16
47	Wide-field single metal nanoparticle spectroscopy for high throughput localized surface plasmon resonance sensing. <i>Lab on A Chip</i> , 2011 , 11, 1895-901	7.2	16
46	Investigative Study of Nucleic Acid-Gold Nanoparticle Interactions Using Laser-based Techniques, Electron Microscopy, and Resistive Pulse Sensing with a Nanopore. <i>Australian Journal of Chemistry</i> , 2011 , 64, 1229	1.2	16
45	Quartz crystal microbalance with integrated surface plasmon grating coupler. <i>Analytical Chemistry</i> , 2008 , 80, 5246-50	7.8	16
44	A two-step antibody strategy for surface plasmon resonance spectroscopy detection of protein-DNA interactions in nuclear extracts. <i>Analytical Biochemistry</i> , 2008 , 376, 137-43	3.1	16
43	Designer tridentate mucin 1 aptamer for targeted drug delivery. <i>Journal of Pharmaceutical Sciences</i> , 2012 , 101, 1672-7	3.9	15
42	A plasmonic multi-logic gate platform based on sequence-specific binding of estrogen receptors and gold nanorods. <i>Nanoscale</i> , 2016 , 8, 19973-19977	7.7	14
41	Engineering Structural Diversity in Gold Nanocrystals by Ligand-Mediated Interface Control. <i>Chemistry of Materials</i> , 2015 , 27, 8032-8040	9.6	13
40	Surface plasmon resonance spectroscopy and quartz crystal microbalance study of MutS binding with single thymine-guanine mismatched DNA. <i>Frontiers in Bioscience - Landmark</i> , 2005 , 10, 268-74	2.8	12
39	Disposable, low cost, silver-coated, piezoelectric quartz crystal biosensor and electrode protection. <i>Analyst, The</i> , 2000 , 125, 2268-73	5	12
38	Fluorescence sensing of protein-DNA interactions using conjugated polymers and graphene oxide. <i>Sensors and Actuators B: Chemical</i> , 2018 , 271, 97-103	8.5	12
37	End-on Covalent Antibody Immobilization on Dual Polarization Interferometry Sensor Chip for Enhanced Immuno-sensing. <i>Plasmonics</i> , 2014 , 9, 851-858	2.4	11
36	Hybrid assembly of DNA-coated gold nanoparticles with water soluble conjugated polymers for studying protein-DNA interaction and ligand inhibition. <i>RSC Advances</i> , 2014 , 4, 8883	3.7	11
35	Study sequence rules of estrogen receptor-DNA interactions using dual polarization interferometry and computational modeling. <i>Analytical Biochemistry</i> , 2013 , 433, 121-8	3.1	11
34	Plasmonic metal nanostructure array by glancing angle deposition for biosensing application. <i>Sensors and Actuators B: Chemical</i> , 2013 , 183, 310-318	8.5	11
33	Selective and enhanced nitric oxide detection using hemoprotein/silica hybrids. <i>Sensors and Actuators B: Chemical</i> , 2008 , 133, 241-243	8.5	11

32	Preparation of mesoporous silica films using sol-gel process and argon plasma treatment. <i>Chemical Physics Letters</i> , 2004 , 395, 70-74	2.5	11
31	Lithographic Processes for the Scalable Fabrication of Micro- and Nanostructures for Biochips and Biosensors. <i>ACS Sensors</i> , 2021 , 6, 2002-2024	9.2	11
30	Studying Protein-DNA Complexes Using Gold Nanoparticles by Exploiting Particle Aggregation, Refractive Index Change, and Fluorescence Quenching and Enhancement Principles. <i>Plasmonics</i> , 2014 , 9, 753-763	2.4	10
29	Interrogating Oestrogen Receptor-DNA Interactions using Metallic Nanoparticles and Surface Plasmon Resonance Technique. <i>Australian Journal of Chemistry</i> , 2011 , 64, 1288	1.2	10
28	Purification and characterization of heparan sulfate from human primary osteoblasts. <i>Journal of Cellular Biochemistry</i> , 2009 , 108, 1132-42	4.7	10
27	Growth of anisotropic gold nanoparticles in photoresponsive fluid for UV sensing and erythema prediction. <i>Nanomedicine</i> , 2016 , 11, 2845-2860	5.6	10
26	Surface plasmon resonance spectroscopy and electrochemistry study of 4-nitro-1,2-phenylenediamine: a switchable redox polymer with nitro functional groups. <i>Langmuir</i> , 2006 , 22, 3929-35	4	9
25	Study of the Effect of Anisotropic Gold Nanoparticles on Plasmonic Coupling with a Photosensitizer for Antimicrobial Film.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 315-326	4.1	9
24	Sensors and Analytical Technologies for Air Quality: Particulate Matters and Bioaerosols. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 4241-4255	4.5	9
23	Interrogating Cooperative Interactions of Transcription Factors with Composite DNA Elements Using Gold Nanoparticles. <i>Science of Advanced Materials</i> , 2014 , 6, 1460-1466	2.3	8
22	Light-induced detuning of a quartz crystal wafer with temperature-compensated cut. <i>Journal of Applied Physics</i> , 2008 , 103, 104503	2.5	7
21	Amplification-free and direct fluorometric determination of telomerase activity in cell lysates using chimeric DNA-templated silver nanoclusters. <i>Mikrochimica Acta</i> , 2019 , 186, 81	5.8	7
20	Studying forkhead box protein A1-DNA interaction and ligand inhibition using gold nanoparticles, electrophoretic mobility shift assay, and fluorescence anisotropy. <i>Analytical Biochemistry</i> , 2014 , 448, 95-104	3.1	6
19	Quantifying the binding between proteins and open chromatin-like DNA sequences with gold nanorods. <i>Chemical Communications</i> , 2019 , 55, 15041-15044	5.8	6
18	A Rapid and Quantitative Fluorimetric Method for Protein-Targeting Small Molecule Drug Screening. <i>Journal of Visualized Experiments</i> , 2015 , e53261	1.6	4
17	Study of nucleic acid-gold nanorod interactions and detecting nucleic acid hybridization using gold nanorod solutions in the presence of sodium citrate. <i>Biointerphases</i> , 2010 , 5, FA98-104	1.8	4
16	Engineering Lacl for Self-Assembly of Inorganic Nanoparticles on DNA Scaffold through the Understanding of Lacl Binding to Solid Surfaces. <i>Advanced Functional Materials</i> , 2009 , 19, 1186-1192	15.6	4
15	Identification of a Wells-Dawson polyoxometalate-based AP-2 inhibitor with pro-apoptotic activity. <i>Biochemical Journal</i> , 2018 , 475, 1965-1977	3.8	4

14	Spacer effect of cooperative binding of estrogen receptor β and specificity protein 1 to composite DNA: A surface plasmon resonance study. <i>Sensors and Actuators B: Chemical</i> , 2014 , 195, 635-642	8.5	3
13	Surface Plasmon Resonance Study of Cooperative Interactions of Estrogen Receptor β and Specificity Protein 1 with Composite DNA Elements. <i>Methods in Molecular Biology</i> , 2016 , 1366, 261-270	1.4	2
12	The plasmonic ruler goes 3D!. <i>ChemPhysChem</i> , 2011 , 12, 2707-8	3.2	2
11	A Nanoplasmonic-Fluorescent Ruler for Detection of Site-Specific Protein Binding to Composite DNA of Multiple Sites. <i>Particle and Particle Systems Characterization</i> , 2014 , 31, 1281-1290	3.1	1
10	Hybrid Plasmonics and Two-Dimensional Materials: Theory and Applications. <i>Journal of Molecular and Engineering Materials</i> , 2020 , 08, 2030001	1.3	1
9	Identification of lysine K18 acetylation on histone H3 peptide using gold nanoparticlesS aggregation behaviour. <i>Amino Acids</i> , 2016 , 48, 1023-1031	3.5	1
8	A portable SERS sensor for pyocyanin detection in simulated wound fluid and through swab sampling. <i>Analyst, The</i> , 2021 , 146, 6924-6934	5	1
7	Gold Nanoparticle-based "Mix and Measure" Fluorimetric Assays to Quantify Antibody Titer. <i>Chemistry - an Asian Journal</i> , 2021 , 16, 3188-3193	4.5	0
6	Structure-selective differentiation of deletion mutations in circulating tumor DNA using dual probe-based isothermal amplification. <i>Chemical Communications</i> , 2021 , 57, 6796-6799	5.8	0
5	Determining ER β Binding Affinity to Singly Mutant ERE Using Dual Polarization Interferometry. <i>Journal of Molecular and Engineering Materials</i> , 2016 , 04, 1640008	1.3	
4	Determination of DNA Binding Behavior of FoxA1 Constructs Using a Gold Nanoparticle-Based High Throughput Assay. <i>Journal of Molecular and Engineering Materials</i> , 2016 , 04, 1640012	1.3	
3	SURFACE PLASMON RESONANCE SPECTROSCOPY AND QUARTZ CRYSTAL MICROBALANCE STUDY OF PROTEIN-DNA INTERACTIONS IN HORMONE RECEPTOR BIOLOGY. <i>Cosmos</i> , 2009 , 05, 79-95		
2	Noble Metal Nanoparticles as Colorimetric Probes for Biological Analysis 2010 , 183-214		
1	Gold Nanoparticle-Based Förster Resonance Energy Transfer (FRET) Analysis of Estrogen Receptor: DNA Interaction. <i>Methods in Molecular Biology</i> , 2016 , 1366, 219-232	1.4	