Susan Zhou

List of Publications by Year
in descending order

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		331538	289141
46	2,745	21	40
papers	citations	h-index	g-index

47	47	47	3969
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Green Synthesis of Luminescent Nitrogen-Doped Carbon Dots from Milk and Its Imaging Application. Analytical Chemistry, 2014, 86, 8902-8905.	3.2	484
2	Advancing Biosensors with Machine Learning. ACS Sensors, 2020, 5, 3346-3364.	4.0	307
3	Diagnostic methods and potential portable biosensors for coronavirus disease 2019. Biosensors and Bioelectronics, 2020, 165, 112349.	5.3	289
4	Aptamer-Based Au Nanoparticles-Enhanced Surface Plasmon Resonance Detection of Small Molecules. Analytical Chemistry, 2008, 80, 7174-7178.	3.2	174
5	Reviewâ€"Measurement and Analysis of Cancer Biomarkers Based on Electrochemical Biosensors. Journal of the Electrochemical Society, 2020, 167, 037525.	1.3	141
6	Molecularly Imprinted Polymers and Surface Imprinted Polymers Based Electrochemical Biosensor for Infectious Diseases. Sensors, 2020, 20, 996.	2.1	135
7	Magnetic Nanoparticle Enhanced Surface Plasmon Resonance Sensing and Its Application for the Ultrasensitive Detection of Magnetic Nanoparticle-Enriched Small Molecules. Analytical Chemistry, 2010, 82, 6782-6789.	3.2	126
8	Aptamerâ€"Au NPs conjugates-enhanced SPR sensing for the ultrasensitive sandwich immunoassay. Biosensors and Bioelectronics, 2009, 25, 124-129.	5.3	115
9	Aqueous Phase Synthesis of Highly Luminescent, Nitrogen-Doped Carbon Dots and Their Application as Bioimaging Agents. Langmuir, 2014, 30, 14270-14275.	1.6	111
10	Recent advances in spectroelectrochemistry. Nanoscale, 2018, 10, 3089-3111.	2.8	106
11	Au NPs-aptamer conjugates as a powerful competitive reagent for ultrasensitive detection of small molecules by surface plasmon resonance spectroscopy. Talanta, 2009, 79, 72-76.	2.9	79
12	Fe3O4 nanoparticles-enhanced SPR sensing for ultrasensitive sandwich bio-assay. Talanta, 2011, 84, 783-788.	2.9	78
13	Recovery of nickel from aqueous solutions by complexation-ultrafiltration process with sodium polyacrylate and polyethylenimine. Journal of Hazardous Materials, 2013, 244-245, 472-477.	6.5	56
14	Aptamer-Au NPs conjugates-accumulated methylene blue for the sensitive electrochemical immunoassay of protein. Talanta, 2010, 81, 63-67.	2.9	55
15	Single domain antibody coated gold nanoparticles as enhancer for Clostridium difficile toxin detection by electrochemical impedance immunosensors. Bioelectrochemistry, 2015, 101, 153-158.	2.4	55
16	Highly sensitive and selective colorimetric detection of cartap residue in agricultural products. Talanta, 2012, 101, 382-387.	2.9	45
17	Dynamics of capturing process of multiple magnetic nanoparticles in a flow through microfluidic bioseparation system. IET Nanobiotechnology, 2009, 3, 55.	1.9	42
18	Sodium citrate assisted facile synthesis of AuPd alloy networks for ethanol electrooxidation with high activity and durability. Journal of Power Sources, 2016, 329, 232-237.	4.0	30

#	Article	IF	Citations
19	Thickness dependent dielectric breakdown of PECVD low-k carbon doped silicon dioxide dielectric thin films: modeling and experiments. Microelectronics Journal, 2003, 34, 259-264.	1.1	26
20	Facile Synthesis of Three-Dimensional PtPdNi Fused Nanoarchitecture as Highly Active and Durable Electrocatalyst for Methanol Oxidation. ACS Applied Energy Materials, 2018, 1, 32-37.	2.5	25
21	Numerical analysis of a magnetic nanoparticle-enhanced microfluidic surface-based bioassay. Microfluidics and Nanofluidics, 2010, 8, 641-652.	1.0	24
22	Electrocatalytic activity of Pt nanoparticles on bamboo shaped carbon nanotubes for ethanol oxidation. Electrochimica Acta, 2010, 55, 8517-8520.	2.6	21
23	CuO/Cu composite nanospheres onÂa TiO2 nanotube array for amperometric sensing of glucose. Mikrochimica Acta, 2020, 187, 123.	2.5	21
24	Mathematical Modeling and Analysis of a Magnetic Nanoparticle-Enhanced Mixing in a Microfluidic System Using Time-Dependent Magnetic Field. IEEE Nanotechnology Magazine, 2011, 10, 953-961.	1.1	20
25	Simultaneous removal of humic acid and heavy metal from aqueous solutions using charged ultrafiltration membranes. Separation Science and Technology, 2017, 52, 1913-1919.	1.3	19
26	FEM analysis of magnetic agitation for tagging biomolecules with magnetic nanoparticles in a microfluidic system. Sensors and Actuators B: Chemical, 2014, 197, 1-12.	4.0	18
27	Thickness dependent glass transition temperature of PECVD low-k dielectric thin films: effect of deposition methods. Microelectronics Journal, 2002, 33, 221-227.	1.1	17
28	Bamboo shaped carbon nanotube supported platinum electrocatalyst synthesized by high power ultrasonic-assisted impregnation method for methanol electrooxidation and related density functional theory calculations. International Journal of Hydrogen Energy, 2015, 40, 2216-2224.	3.8	17
29	Disposable Polyurethane Nanospiked Gold Electrode-Based Label-Free Electrochemical Immunosensor for Clostridium difficile. ACS Applied Nano Materials, 2020, 3, 357-363.	2.4	16
30	Batch fabrication of electrochemical sensors on a glycol-modified polyethylene terephthalate-based microfluidic device. Biosensors and Bioelectronics, 2020, 167, 112521.	5.3	16
31	Direct electrochemistry and electrocatalysis of horseradish peroxidase immobilized on bamboo shaped carbon nanotubes/chitosan matrix. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 385, 91-94.	2.3	15
32	Optical properties of PECVD dielectric thin films: thickness and deposition method dependence. Microelectronics Journal, 2002, 33, 999-1004.	1.1	13
33	Residence time distribution analysis of magnetic nanoparticle-enhanced mixing using time-dependent magnetic actuation in microfluidic system. Microfluidics and Nanofluidics, 2011, 10, 735-747.	1.0	9
34	Experimental investigation of magnetically actuated separation using tangential microfluidic channels and magnetic nanoparticles. IET Nanobiotechnology, 2014, 8, 102-110.	1.9	7
35	Magnetite nanoparticles doped photoresist derived carbon as a suitable substratum for nerve cell culture. Colloids and Surfaces B: Biointerfaces, 2013, 102, 428-434.	2.5	6
36	Reviewâ€"CRISPR/Cas Systems: Endless Possibilities for Electrochemical Nucleic Acid Sensors. Journal of the Electrochemical Society, 2022, 169, 037522.	1.3	6

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37	Effect of deposition methods on dielectric breakdown strength of PECVD low-k carbon doped silicon dioxide dielectric thin films. Microelectronics Journal, 2004, 35, 571-576.	1.1	5
38	Effect of vimentin on cell migration in collagen-coated microchannels: A mimetic physiological confined environment. Biomicrofluidics, 2021, 15, 034105.	1.2	5
39	ENHANCEMENT OF DNA HYBRIDIZATION KINETICS IN MICROARRAYS BY CONVECTIVE TRANSPORT. Chemical Engineering Communications, 2007, 195, 167-186.	1.5	2
40	Magnetic nanoparticle (MNP) enhanced biosensing by surface plasmon resonance (SPR) for portable devices. , 2010, , .		2
41	In situ analysis of capturing dynamics of magnetic nanoparticles in a microfluidic system. Smart Structures and Systems, 2013, 12, 1-22.	1.9	2
42	Nanoparticles (NPs) for Biosensing Applications: Current Aspects and Prospects. , 2016, , 177-209.		0
43	Wide Linear Range Detecting Non-Enzymatic Glucose Sensor Based on Cu-CuO Nanoparticles Decorated TiO2nanotubes. ECS Meeting Abstracts, 2019, , .	0.0	0
44	Nanotechnology for Biosensing Applications. ECS Meeting Abstracts, 2019, , .	0.0	0
45	(Invited) Disposable Polyurethane Nanospiked Gold Electrode-Based Label-Free Electrochemical Immunosensor for Clostridium Difficile. ECS Meeting Abstracts, 2020, MA2020-01, 1894-1894.	0.0	0
46	Development of Electrochemical 6-Well Plates and Its Stability as an Immunosensor. Journal of the Electrochemical Society, 2022, 169, 027506.	1.3	0