

Susan Zhou

List of Publications by Year in descending order

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46
papers

2,745
citations

331538

21
h-index

289141

40
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47
all docs

47
docs citations

47
times ranked

3969
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of Electrochemical 6-Well Plates and Its Stability as an Immunosensor. Journal of the Electrochemical Society, 2022, 169, 027506.	1.3	0
2	Reviewâ€”CRISPR/Cas Systems: Endless Possibilities for Electrochemical Nucleic Acid Sensors. Journal of the Electrochemical Society, 2022, 169, 037522.	1.3	6
3	Effect of vimentin on cell migration in collagen-coated microchannels: A mimetic physiological confined environment. Biomicrofluidics, 2021, 15, 034105.	1.2	5
4	Disposable Polyurethane Nanospiked Gold Electrode-Based Label-Free Electrochemical Immunosensor for <i>Clostridium difficile</i> . ACS Applied Nano Materials, 2020, 3, 357-363.	2.4	16
5	Reviewâ€”Measurement and Analysis of Cancer Biomarkers Based on Electrochemical Biosensors. Journal of the Electrochemical Society, 2020, 167, 037525.	1.3	141
6	Batch fabrication of electrochemical sensors on a glycol-modified polyethylene terephthalate-based microfluidic device. Biosensors and Bioelectronics, 2020, 167, 112521.	5.3	16
7	Advancing Biosensors with Machine Learning. ACS Sensors, 2020, 5, 3346-3364.	4.0	307
8	Diagnostic methods and potential portable biosensors for coronavirus disease 2019. Biosensors and Bioelectronics, 2020, 165, 112349.	5.3	289
9	Molecularly Imprinted Polymers and Surface Imprinted Polymers Based Electrochemical Biosensor for Infectious Diseases. Sensors, 2020, 20, 996.	2.1	135
10	CuO/Cu composite nanospheres on TiO ₂ nanotube array for amperometric sensing of glucose. Mikrochimica Acta, 2020, 187, 123.	2.5	21
11	(Invited) Disposable Polyurethane Nanospiked Gold Electrode-Based Label-Free Electrochemical Immunosensor for <i>Clostridium Difficile</i> . ECS Meeting Abstracts, 2020, MA2020-01, 1894-1894.	0.0	0
12	Wide Linear Range Detecting Non-Enzymatic Glucose Sensor Based on Cu-CuO Nanoparticles Decorated TiO ₂ nanotubes. ECS Meeting Abstracts, 2019, , .	0.0	0
13	Nanotechnology for Biosensing Applications. ECS Meeting Abstracts, 2019, , .	0.0	0
14	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
15	Recent advances in spectroelectrochemistry. Nanoscale, 2018, 10, 3089-3111.	2.8	106
16	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
17	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
18	Nanoparticles (NPs) for Biosensing Applications: Current Aspects and Prospects. , 2016, , 177-209.		0

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19	Bamboo shaped carbon nanotube supported platinum electrocatalyst synthesized by high power ultrasonic-assisted impregnation method for methanol electrooxidation and related density functional theory calculations. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 2216-2224.	3.8	17
20	Single domain antibody coated gold nanoparticles as enhancer for <i>Clostridium difficile</i> toxin detection by electrochemical impedance immunosensors. <i>Bioelectrochemistry</i> , 2015, 101, 153-158.	2.4	55
21	Experimental investigation of magnetically actuated separation using tangential microfluidic channels and magnetic nanoparticles. <i>IET Nanobiotechnology</i> , 2014, 8, 102-110.	1.9	7
22	FEM analysis of magnetic agitation for tagging biomolecules with magnetic nanoparticles in a microfluidic system. <i>Sensors and Actuators B: Chemical</i> , 2014, 197, 1-12.	4.0	18
23	Aqueous Phase Synthesis of Highly Luminescent, Nitrogen-Doped Carbon Dots and Their Application as Bioimaging Agents. <i>Langmuir</i> , 2014, 30, 14270-14275.	1.6	111
24	Green Synthesis of Luminescent Nitrogen-Doped Carbon Dots from Milk and Its Imaging Application. <i>Analytical Chemistry</i> , 2014, 86, 8902-8905.	3.2	484
25	Recovery of nickel from aqueous solutions by complexation-ultrafiltration process with sodium polyacrylate and polyethylenimine. <i>Journal of Hazardous Materials</i> , 2013, 244-245, 472-477.	6.5	56
26	Magnetite nanoparticles doped photoresist derived carbon as a suitable substratum for nerve cell culture. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 102, 428-434.	2.5	6
27	In situ analysis of capturing dynamics of magnetic nanoparticles in a microfluidic system. <i>Smart Structures and Systems</i> , 2013, 12, 1-22.	1.9	2
28	Highly sensitive and selective colorimetric detection of cartap residue in agricultural products. <i>Talanta</i> , 2012, 101, 382-387.	2.9	45
29	Mathematical Modeling and Analysis of a Magnetic Nanoparticle-Enhanced Mixing in a Microfluidic System Using Time-Dependent Magnetic Field. <i>IEEE Nanotechnology Magazine</i> , 2011, 10, 953-961.	1.1	20
30	Fe ₃ O ₄ nanoparticles-enhanced SPR sensing for ultrasensitive sandwich bio-assay. <i>Talanta</i> , 2011, 84, 783-788.	2.9	78
31	Direct electrochemistry and electrocatalysis of horseradish peroxidase immobilized on bamboo shaped carbon nanotubes/chitosan matrix. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 385, 91-94.	2.3	15
32	Residence time distribution analysis of magnetic nanoparticle-enhanced mixing using time-dependent magnetic actuation in microfluidic system. <i>Microfluidics and Nanofluidics</i> , 2011, 10, 735-747.	1.0	9
33	Magnetic nanoparticle (MNP) enhanced biosensing by surface plasmon resonance (SPR) for portable devices. , 2010, , .		2
34	Numerical analysis of a magnetic nanoparticle-enhanced microfluidic surface-based bioassay. <i>Microfluidics and Nanofluidics</i> , 2010, 8, 641-652.	1.0	24
35	Electrocatalytic activity of Pt nanoparticles on bamboo shaped carbon nanotubes for ethanol oxidation. <i>Electrochimica Acta</i> , 2010, 55, 8517-8520.	2.6	21
36	Magnetic Nanoparticle Enhanced Surface Plasmon Resonance Sensing and Its Application for the Ultrasensitive Detection of Magnetic Nanoparticle-Enriched Small Molecules. <i>Analytical Chemistry</i> , 2010, 82, 6782-6789.	3.2	126

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37	Aptamer-Au NPs conjugates-accumulated methylene blue for the sensitive electrochemical immunoassay of protein. <i>Talanta</i> , 2010, 81, 63-67.	2.9	55
38	Dynamics of capturing process of multiple magnetic nanoparticles in a flow through microfluidic bioseparation system. <i>IET Nanobiotechnology</i> , 2009, 3, 55.	1.9	42
39	Aptamer-Au NPs conjugates-enhanced SPR sensing for the ultrasensitive sandwich immunoassay. <i>Biosensors and Bioelectronics</i> , 2009, 25, 124-129.	5.3	115
40	Au NPs-aptamer conjugates as a powerful competitive reagent for ultrasensitive detection of small molecules by surface plasmon resonance spectroscopy. <i>Talanta</i> , 2009, 79, 72-76.	2.9	79
41	Aptamer-Based Au Nanoparticles-Enhanced Surface Plasmon Resonance Detection of Small Molecules. <i>Analytical Chemistry</i> , 2008, 80, 7174-7178.	3.2	174
42	ENHANCEMENT OF DNA HYBRIDIZATION KINETICS IN MICROARRAYS BY CONVECTIVE TRANSPORT. <i>Chemical Engineering Communications</i> , 2007, 195, 167-186.	1.5	2
43	Effect of deposition methods on dielectric breakdown strength of PECVD low-k carbon doped silicon dioxide dielectric thin films. <i>Microelectronics Journal</i> , 2004, 35, 571-576.	1.1	5
44	Thickness dependent dielectric breakdown of PECVD low-k carbon doped silicon dioxide dielectric thin films: modeling and experiments. <i>Microelectronics Journal</i> , 2003, 34, 259-264.	1.1	26
45	Thickness dependent glass transition temperature of PECVD low-k dielectric thin films: effect of deposition methods. <i>Microelectronics Journal</i> , 2002, 33, 221-227.	1.1	17
46	Optical properties of PECVD dielectric thin films: thickness and deposition method dependence. <i>Microelectronics Journal</i> , 2002, 33, 999-1004.	1.1	13