

Shanhong Xia

List of Publications by Year in descending order

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78
papers

1,036
citations

471509

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454955

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all docs

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docs citations

78
times ranked

1445
citing authors

#	ARTICLE	IF	CITATIONS
1	Wafer-Level Vacuum-Packaged Electric Field Microsensor: Structure Design, Theoretical Model, Microfabrication, and Characterization. <i>Micromachines</i> , 2022, 13, 928.	2.9	4
2	Enhanced Sensitivity and Stability of a Novel Resonant MEMS Electric Field Sensor Based on Closed-Loop Feedback. <i>IEEE Sensors Journal</i> , 2021, 21, 22536-22543.	4.7	12
3	Chitosan/graphene oxide/mos2/aunps modified electrochemical sensor for trace mercury detection**. , 2021, , .		0
4	Study of an adsorption method for trace mercury based on <i>Bacillus subtilis</i> . <i>Open Chemistry</i> , 2021, 19, 1164-1170.	1.9	0
5	Poly(sulfosalicylic acid)-functionalized gold nanoparticles for the detection of tetrabromobisphenol A at pM concentrations. <i>Journal of Hazardous Materials</i> , 2020, 388, 121733.	12.4	7
6	Determination of Mercury(II) on A Centrifugal Microfluidic Device Using Ionic Liquid Dispersive Liquidâ€”Liquid Microextraction. <i>Micromachines</i> , 2019, 10, 523.	2.9	10
7	Palladium-Gold Modified Ultramicro Interdigital Array Electrode Chip for Nitrate Detection in Neutral Water. <i>Micromachines</i> , 2019, 10, 223.	2.9	17
8	Temperature-controlled ionic liquid dispersive liquidâ€”liquid microextraction combined with fluorescence detection of ultra-trace Hg²⁺ in water. <i>Analytical Methods</i> , 2019, 11, 2669-2676.	2.7	23
9	A multi-parameter integrated chip system for water quality detection. <i>International Journal of Modern Physics B</i> , 2019, 33, 1950041.	2.0	2
10	Ru-MOFs Modified Microelectrode for Trace Mercury Detection. , 2019, , .		0
11	A Portable Sensor System for Determination of Copper Ions in Waters with Android Device. , 2019, , .		3
12	Cationic Surfactant Enhanced Detection of Tetrabromobisphenol A with Boron-doped Diamond Electrode. , 2019, , .		1
13	Synthesis and electrochemical sensing application of poly(3,4-ethylenedioxythiophene)-based materials: A review. <i>Analytica Chimica Acta</i> , 2018, 1022, 1-19.	5.4	89
14	Determination of Nitrate in Potable Water Using a Miniaturized Electrochemical Sensor. , 2018, , .		3
15	Gold Nanospheres-Coated LSPR Fiber Sensor with High RI Sensitivity by a Rapid Fabricating Method. , 2018, , .		2
16	A High Sensitivity Electric Field Microsensor Based on Torsional Resonance. <i>Sensors</i> , 2018, 18, 286.	3.8	28
17	Design, Fabrication and Characterization of a MEMS-Based Three-Dimensional Electric Field Sensor with Low Cross-Axis Coupling Interference. <i>Sensors</i> , 2018, 18, 870.	3.8	16
18	A wavelength-modulated localized surface plasmon resonance (LSPR) optical fiber sensor for sensitive detection of mercury(II) ion by gold nanoparticles-DNA conjugates. <i>Biosensors and Bioelectronics</i> , 2018, 114, 15-21.	10.1	95

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19	Reusable Boron-Doped Diamond Electrodes for the Semi-Continuous Detection of Tetrabromobisphenol A. IEEE Sensors Journal, 2018, 18, 5219-5224.	4.7	6
20	Electric field and induced charges distribution model for MEMS strip-type sensing electrodes. Microsystem Technologies, 2017, 23, 143-150.	2.0	1
21	Ultramicroelectrode array modified with magnetically labeled Bacillus subtilis, palladium nanoparticles and reduced carboxy graphene for amperometric determination of biochemical oxygen demand. Mikrochimica Acta, 2017, 184, 763-771.	5.0	10
22	Single-chip 3D electric field microsensor. Frontiers of Mechanical Engineering, 2017, 12, 581-590.	4.3	9
23	Cuff-less blood pressure estimation using Kalman filter on android platform. , 2017, , .		1
24	The Polypyrrole/Multiwalled Carbon Nanotube Modified Au Microelectrode for Sensitive Electrochemical Detection of Trace Levels of Pb ²⁺ . Micromachines, 2017, 8, 86.	2.9	12
25	Fabrication of a Miniature Multi-Parameter Sensor Chip for Water Quality Assessment. Sensors, 2017, 17, 157.	3.8	26
26	A Mediated BOD Biosensor Based on Immobilized B. Subtilis on Three-Dimensional Porous Graphene-Polypyrrole Composite. Sensors, 2017, 17, 2594.	3.8	36
27	Early detection of germinated wheat grains using terahertz image and chemometrics. Scientific Reports, 2016, 6, 21299.	3.3	30
28	Quantitative determination of aflatoxin B1 concentration in acetonitrile by chemometric methods using terahertz spectroscopy. Food Chemistry, 2016, 209, 286-292.	8.2	48
29	Electrochemical sensing platform for tetrabromobisphenol A at pM level based on the synergetic enhancement effects of graphene and dioctadecyldimethylammonium bromide. Analytica Chimica Acta, 2016, 935, 90-96.	5.4	7
30	A decoupling calibration method based on genetic algorithm for three dimensional electric field sensor. , 2016, , .		8
31	False arrhythmia alarm reduction in the intensive care unit using data fusion and machine learning. , 2016, , .		4
32	An Electrochemical Sensor System with Renewable Copper Nano-clusters Modified Electrode for Continuous Nitrate Determination. IEEE Sensors Journal, 2016, , 1-1.	4.7	6
33	Label-free immunosensor based on one-step electrodeposition of chitosan-gold nanoparticles biocompatible film on Au microelectrode for determination of aflatoxin B1 in maize. Biosensors and Bioelectronics, 2016, 80, 222-229.	10.1	102
34	Salt-induced ionic liquid dispersive liquid-liquid microextraction and filter separation. Analytical Methods, 2016, 8, 1096-1102.	2.7	15
35	Electrochemical enhancement of long alkyl-chained surfactants for sensitive determination of tetrabromobisphenol A. Electrochimica Acta, 2016, 190, 490-494.	5.2	28
36	Determination of trace mercury in water based on N -octylpyridinium ionic liquids preconcentration and stripping voltammetry. Journal of Hazardous Materials, 2016, 301, 206-213.	12.4	60

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37	Characterization of Wheat Varieties Using Terahertz Time-Domain Spectroscopy. Sensors, 2015, 15, 12560-12572.	3.8	30
38	A Palladium-Tin Modified Microband Electrode Array for Nitrate Determination. Sensors, 2015, 15, 23249-23261.	3.8	19
39	Discrimination of moldy wheat using terahertz imaging combined with multivariate classification. RSC Advances, 2015, 5, 93979-93986.	3.6	18
40	Modification of Graphene on Ultramicroelectrode Array and Its Application in Detection of Dissolved Oxygen. Sensors, 2015, 15, 382-393.	3.8	9
41	Computation of capacitance and electrostatic forces for the electrostatically driving actuators considering fringe effects. Microsystem Technologies, 2015, 21, 2089-2096.	2.0	7
42	Highly-sensitive electrochemical sensing platforms for food colourants based on the property-tuning of porous carbon. Analytica Chimica Acta, 2015, 887, 75-81.	5.4	38
43	EMD-Based Electrocardiogram Delineation for a Wearable Low-Power ECG Monitoring Device. Canadian Journal of Electrical and Computer Engineering, 2014, 37, 212-221.	2.0	15
44	An Electrochemical Microsensor Based on a AuNPs-Modified Microband Array Electrode for Phosphate Determination in Fresh Water Samples. Sensors, 2014, 14, 24472-24482.	3.8	12
45	Three dimensional electric field measurement method based on coplanar decoupling structure. , 2014, , .		10
46	Development of a portable total nitrogen detection system based on microelectrodes. Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems, 2014, 228, 46-51.	0.1	0
47	A novel 2-dimensional electric field sensor based on in-plane micro rotary actuator. , 2014, , .		4
48	Electric field microsensor based on the structure of piezoelectric interdigitated cantilever beams. Journal of Electronics, 2014, 31, 497-504.	0.2	2
49	Microfluidic chip with interdigitated ultra-microelectrode array for total phosphorus detection. Micro and Nano Letters, 2014, 9, 862-865.	1.3	10
50	High performance electric field micro sensor with combined differential structure. Journal of Electronics, 2014, 31, 143-150.	0.2	5
51	Exploiting articulatory features for pitch accent detection. Journal of Zhejiang University: Science C, 2013, 14, 835-844.	0.7	3
52	A micro electrochemical sensor with porous copper-clusters for total nitrogen determination in freshwaters. , 2013, , .		1
53	Photocatalytic digestion of total phosphorus in the presence of H_2O_2 utilizing nano- TiO_2 photocatalyst. , 2013, , .		0
54	Mesoporous TiO_2 nano-spheres: Electrospray combined sol-gel fabrication and application to organic phosphorus degradation. Journal of Electronics, 2013, 30, 313-317.	0.2	0

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55	Design, fabrication and application of an SOI-based resonant electric field microsensor with coplanar comb-shaped electrodes. Journal of Micromechanics and Microengineering, 2013, 23, 055002.	2.6	35
56	Microsensor Chip Integrated with Gold Nanoparticles-Modified Ultramicroelectrode Array for Improved Electroanalytical Measurement of Copper Ions. Electroanalysis, 2013, 25, 1713-1721.	2.9	15
57	Photocatalytic digestion of total phosphorus utilising nanotitanium dioxide photocatalyst. Micro and Nano Letters, 2013, 8, 582-586.	1.3	1
58	Fabrication and characterization of SnO ₂ nanospheres for hydrogen detection. Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems, 2013, 227, 125-129.	0.1	0
59	Continuous flowing micro-reactor for aqueous reaction at temperature higher than 100°C. Biomicrofluidics, 2013, 7, 034104.	2.4	2
60	Micromachined catalytic combustion hydrogen gas sensor. , 2013, , .		0
61	Micromachined catalytic combustion type gas sensor for hydrogen detection. Micro and Nano Letters, 2013, 8, 668-671.	1.3	18
62	A low power health monitoring device for an electrocardiogram and respiration. WIT Transactions on Engineering Sciences, 2013, , .	0.0	0
63	Simple and efficient baseline removal method for a smartphone based ECG detection device. WIT Transactions on Engineering Sciences, 2013, , .	0.0	0
64	Determination of total phosphorus in water environment by three-dimensional double coils microelectrode chip. , 2012, , .		1
65	Miniaturized Optical System for Detection of Ammonia Nitrogen in Water Based on Gas-Phase Colorimetry. Analytical Letters, 2012, 45, 2176-2184.	1.8	6
66	A novel micro-pellistor based on nanoporous alumina beam support. Journal of Electronics, 2012, 29, 469-472.	0.2	2
67	Simultaneous Detection of Copper, Lead and Zinc on Tin Film/Gold Nanoparticles/Gold Microelectrode by Square Wave Stripping Voltammetry. Electroanalysis, 2012, 24, 1783-1790.	2.9	15
68	Fabrication of a 3D interdigitated double-coil microelectrode chip by MEMS technique. Mikrochimica Acta, 2012, 177, 491-496.	5.0	0
69	FET immunosensor for hemoglobin A1c using a gold nanofilm grown by a seed-mediated technique and covered with mixed self-assembled monolayers. Mikrochimica Acta, 2012, 176, 65-72.	5.0	16
70	Special Invited Lecture: Integrated MEMS Sensors. , 2007, , .		0
71	Efficient CMOS Preamplifier Dedicated for a MEMS-Based Electrostatic Field Sensor. , 2006, , .		0
72	A Micromachined Electrostatic Field Sensor with Vertical Thermal Actuator. , 2006, , .		0

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73	A micro amperometric immunosensor for detection of human immunoglobulin. Science in China Series F: Information Sciences, 2006, 49, 397-408.	1.1	7
74	Electric field sensors based on MEMS technology. Journal of Electronics, 2005, 22, 443-448.	0.2	6
75	A microfabricated metal grating oscillator for electric field detection. Journal of Electronics, 2005, 22, 564-568.	0.2	0
76	Self-assembly of micro parts on normal glass substrate *. Progress in Natural Science: Materials International, 2004, 14, 934-936.	4.4	0
77	Modelling and Experiment of a Silicon Resonant Pressure Sensor. Analog Integrated Circuits and Signal Processing, 2002, 32, 29-35.	1.4	8
78	Novel "cathode-on-membrane" VME pressure sensor. Journal of Electronics, 2001, 18, 255-259.	0.2	0