James S Cooper

List of Publications by Year
in descending order

30 papers	707 citations	516215 16 h-index	525886 27 g-index
30 all docs	30 docs citations	30 times ranked	846 citing authors

#	Article	IF	Citations
1	Flow-controlled synthesis of gold nanoparticles in a biphasic system with inline liquidâ€“liquid separation. Reaction Chemistry and Engineering, 2020, 5, 356-366.	1.9	13
2	Strong enhancement of gold nanoparticle chemiresistor response to low-partitioning organic analytes induced by pre-exposure to high partitioning organics. Physical Chemistry Chemical Physics, 2020, 22, 9117-9123.	1.3	1
3	Using Chemiresistor Sensor Arrays to Test Petrol Station Groundwater Samples for Hydrocarbon Pollutants. ECS Meeting Abstracts, 2020, MA2020-01, 2204-2204.	0.0	0
4	Detecting and discriminating pyrethroids with chemiresistor sensors. Environmental Chemistry, 2019, 16, 553.	0.7	1
5	Solvent-induced modulation of the chemical sensing performance of gold nanoparticle film chemiresistors. Sensors and Actuators B: Chemical, 2019, 284, 316-322.	4.0	7
6	High-Throughput Fabrication and Screening Improves Gold Nanoparticle Chemiresistor Sensor Performance. ACS Combinatorial Science, 2015, 17, 120-129.	3.8	32
7	Detection of bacterial metabolites for the discrimination of bacteria utilizing gold nanoparticle chemiresistor sensors. Sensors and Actuators B: Chemical, 2015, 220, 895-902.	4.0	20
8	Quantifying BTEX in aqueous solutions with potentially interfering hydrocarbons using a partially selective sensor array. Analyst, The, 2015, 140, 3233-3238.	1.7	16
9	Transistorâ€Like Modulation of Gold Nanoparticle Film Conductivity Using Hydrophobic Ions. Advanced Materials Interfaces, 2014, 1, 1400062.	1.9	5
10	Performance of graphene, carbon nanotube, and gold nanoparticle chemiresistor sensors for the detection of petroleum hydrocarbons in water. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	29
11	Quantifying mixtures of hydrocarbons dissolved in water with a partially selective sensor array using random forests analysis. Sensors and Actuators B: Chemical, 2014, 202, 279-285.	4.0	15
12	Influence of Gold Nanoparticle Film Porosity on the Chemiresistive Sensing Performance. Electroanalysis, 2013, 25, 2313-2320.	1.5	4
13	Sensor System for Directly Detecting and Identifying Hydrocarbons in Water. , 2012, , .		0
14	Gold nanoparticle chemiresistors operating in biological fluids. Lab on A Chip, 2012, 12, 3040.	3.1	20
15	Dynamic response of gold nanoparticle chemiresistors to organic analytes in aqueous solution. Physical Chemistry Chemical Physics, 2011, 13, 18208.	1.3	16
16	Functionalized graphene as an aqueous phase chemiresistor sensing material. Sensors and Actuators B: Chemical, 2011, 155, 154-158.	4.0	45
17	Chemical Sensor Array That Can Differentiate Complex Hydrocarbon Mixtures Dissolved in Seawater. Sensor Letters, 2011, 9, 609-611.	0.4	7
18	Gold Nanoparticle Chemiresistor Sensor Array that Differentiates between Hydrocarbon Fuels Dissolved in Artificial Seawater. Analytical Chemistry, 2010, 82, 3788-3795.	3.2	55

#	ARTICLE	IF	CITATIONS
19	Electrical noise in gold nanoparticle chemiresistors: Effects of measurement environment and organic linker properties. , 2010, , .		3
20	Characterization of the Sensor Response of Gold Nanoparticle Chemiresistors. Journal of Physical Chemistry C, 2010, 114, 17529-17534.	1.5	20
21	Investigation of PtCoCr/C catalysts for methanol electro-oxidation identified by a thin film combinatorial method. Journal of Power Sources, 2009, 192, 391-395.	4.0	25
22	Methanol electro-oxidation by a ternary Ptâ€"Ruâ€"Cu catalyst identified by a combinatorial approach. Journal of Power Sources, 2008, 185, 913-916.	4.0	45
23	Combinatorial screening of ternary Ptâ€"Niâ€"Cr catalysts for methanol electro-oxidation. Electrochemistry Communications, 2008, 10, 1545-1547.	2.3	24
24	SECM imaging of electrocatalytic activity for oxygen reduction reaction on thin film materials. Electrochimica Acta, 2007, 52, 5172-5181.	2.6	28
25	Combinatorial screening of fuel cell cathode catalyst compositions. Applied Surface Science, 2007, 254, 662-668.	3.1	51
26	SECM characterization of Ptâ€"Ruâ€"WC and Ptâ€"Ruâ€"Co ternary thin film combinatorial libraries as anode electrocatalysts for PEMFC. Journal of Power Sources, 2006, 161, 106-114.	4.0	62
27	Combinatorial screening of thin film electrocatalysts for a direct methanol fuel cell anode. Journal of Power Sources, 2006, 163, 330-338.	4.0	76
28	Plasma sputtering system for deposition of thin film combinatorial libraries. Review of Scientific Instruments, 2005, 76, 062221.	0.6	20
29	Scanning electrochemical microscope characterization of thin film combinatorial libraries for fuel cell electrode applications. Measurement Science and Technology, 2005, 16, 174-182.	1.4	51
30	Scanning electrochemical microscope characterization of thin film Ptâ€"Ru alloys for fuel cell applications. Chemical Engineering Science, 2004, 59, 4839-4845.	1.9	16