

# James S Cooper

## List of Publications by Year in descending order

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30  
papers

707  
citations

516561

16  
h-index

526166

27  
g-index

30  
all docs

30  
docs citations

30  
times ranked

846  
citing authors

#	ARTICLE	IF	CITATIONS
1	Combinatorial screening of thin film electrocatalysts for a direct methanol fuel cell anode. <i>Journal of Power Sources</i> , 2006, 163, 330-338.	4.0	76
2	SECM characterization of Pt-Ru-WC and Pt-Ru-Co ternary thin film combinatorial libraries as anode electrocatalysts for PEMFC. <i>Journal of Power Sources</i> , 2006, 161, 106-114.	4.0	62
3	Gold Nanoparticle Chemiresistor Sensor Array that Differentiates between Hydrocarbon Fuels Dissolved in Artificial Seawater. <i>Analytical Chemistry</i> , 2010, 82, 3788-3795.	3.2	55
4	Scanning electrochemical microscope characterization of thin film combinatorial libraries for fuel cell electrode applications. <i>Measurement Science and Technology</i> , 2005, 16, 174-182.	1.4	51
5	Combinatorial screening of fuel cell cathode catalyst compositions. <i>Applied Surface Science</i> , 2007, 254, 662-668.	3.1	51
6	Methanol electro-oxidation by a ternary Pt-Ru-Cu catalyst identified by a combinatorial approach. <i>Journal of Power Sources</i> , 2008, 185, 913-916.	4.0	45
7	Functionalized graphene as an aqueous phase chemiresistor sensing material. <i>Sensors and Actuators B: Chemical</i> , 2011, 155, 154-158.	4.0	45
8	High-Throughput Fabrication and Screening Improves Gold Nanoparticle Chemiresistor Sensor Performance. <i>ACS Combinatorial Science</i> , 2015, 17, 120-129.	3.8	32
9	Performance of graphene, carbon nanotube, and gold nanoparticle chemiresistor sensors for the detection of petroleum hydrocarbons in water. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	29
10	SECM imaging of electrocatalytic activity for oxygen reduction reaction on thin film materials. <i>Electrochimica Acta</i> , 2007, 52, 5172-5181.	2.6	28
11	Investigation of PtCoCr/C catalysts for methanol electro-oxidation identified by a thin film combinatorial method. <i>Journal of Power Sources</i> , 2009, 192, 391-395.	4.0	25
12	Combinatorial screening of ternary Pt-Ni-Cr catalysts for methanol electro-oxidation. <i>Electrochemistry Communications</i> , 2008, 10, 1545-1547.	2.3	24
13	Plasma sputtering system for deposition of thin film combinatorial libraries. <i>Review of Scientific Instruments</i> , 2005, 76, 062221.	0.6	20
14	Characterization of the Sensor Response of Gold Nanoparticle Chemiresistors. <i>Journal of Physical Chemistry C</i> , 2010, 114, 17529-17534.	1.5	20
15	Gold nanoparticle chemiresistors operating in biological fluids. <i>Lab on A Chip</i> , 2012, 12, 3040.	3.1	20
16	Detection of bacterial metabolites for the discrimination of bacteria utilizing gold nanoparticle chemiresistor sensors. <i>Sensors and Actuators B: Chemical</i> , 2015, 220, 895-902.	4.0	20
17	Scanning electrochemical microscope characterization of thin film Pt-Ru alloys for fuel cell applications. <i>Chemical Engineering Science</i> , 2004, 59, 4839-4845.	1.9	16
18	Dynamic response of gold nanoparticle chemiresistors to organic analytes in aqueous solution. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 18208.	1.3	16

#	ARTICLE	IF	CITATIONS
19	Quantifying BTEX in aqueous solutions with potentially interfering hydrocarbons using a partially selective sensor array. <i>Analyst, The</i> , 2015, 140, 3233-3238.	1.7	16
20	Quantifying mixtures of hydrocarbons dissolved in water with a partially selective sensor array using random forests analysis. <i>Sensors and Actuators B: Chemical</i> , 2014, 202, 279-285.	4.0	15
21	Flow-controlled synthesis of gold nanoparticles in a biphasic system with inline liquid-liquid separation. <i>Reaction Chemistry and Engineering</i> , 2020, 5, 356-366.	1.9	13
22	Solvent-induced modulation of the chemical sensing performance of gold nanoparticle film chemiresistors. <i>Sensors and Actuators B: Chemical</i> , 2019, 284, 316-322.	4.0	7
23	Chemical Sensor Array That Can Differentiate Complex Hydrocarbon Mixtures Dissolved in Seawater. <i>Sensor Letters</i> , 2011, 9, 609-611.	0.4	7
24	Transistor-Like Modulation of Gold Nanoparticle Film Conductivity Using Hydrophobic Ions. <i>Advanced Materials Interfaces</i> , 2014, 1, 1400062.	1.9	5
25	Influence of Gold Nanoparticle Film Porosity on the Chemiresistive Sensing Performance. <i>Electroanalysis</i> , 2013, 25, 2313-2320.	1.5	4
26	Electrical noise in gold nanoparticle chemiresistors: Effects of measurement environment and organic linker properties. , 2010, , .		3
27	Detecting and discriminating pyrethroids with chemiresistor sensors. <i>Environmental Chemistry</i> , 2019, 16, 553.	0.7	1
28	Strong enhancement of gold nanoparticle chemiresistor response to low-partitioning organic analytes induced by pre-exposure to high partitioning organics. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 9117-9123.	1.3	1
29	Sensor System for Directly Detecting and Identifying Hydrocarbons in Water. , 2012, , .		0
30	Using Chemiresistor Sensor Arrays to Test Petrol Station Groundwater Samples for Hydrocarbon Pollutants. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 2204-2204.	0.0	0