

# James S Cooper

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

28  
papers

648  
citations

16  
h-index

25  
g-index

30  
ext. papers

682  
ext. citations

5.4  
avg, IF

3.64  
L-index

#	Paper	IF	Citations
28	Flow-controlled synthesis of gold nanoparticles in a biphasic system with inline liquid-liquid separation. <i>Reaction Chemistry and Engineering</i> , <b>2020</b> , 5, 356-366	4.9	7
27	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> , <b>2020</b> , 22, 9117-9123	3.6	
26	Detecting and discriminating pyrethroids with chemiresistor sensors. <i>Environmental Chemistry</i> , <b>2019</b> , 16, 553	3.2	0
25	Solvent-induced modulation of the chemical sensing performance of gold nanoparticle film chemiresistors. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 284, 316-322	8.5	7
24	Detection of bacterial metabolites for the discrimination of bacteria utilizing gold nanoparticle chemiresistor sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 220, 895-902	8.5	18
23	Quantifying BTEX in aqueous solutions with potentially interfering hydrocarbons using a partially selective sensor array. <i>Analyst, The</i> , <b>2015</b> , 140, 3233-8	5	13
22	High-throughput fabrication and screening improves gold nanoparticle chemiresistor sensor performance. <i>ACS Combinatorial Science</i> , <b>2015</b> , 17, 120-9	3.9	29
21	Quantifying mixtures of hydrocarbons dissolved in water with a partially selective sensor array using random forests analysis. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 202, 279-285	8.5	13
20	Transistor-Like Modulation of Gold Nanoparticle Film Conductivity Using Hydrophobic Ions. <i>Advanced Materials Interfaces</i> , <b>2014</b> , 1, 1400062	4.6	4
19	Performance of graphene, carbon nanotube, and gold nanoparticle chemiresistor sensors for the detection of petroleum hydrocarbons in water. <i>Journal of Nanoparticle Research</i> , <b>2014</b> , 16, 1	2.3	27
18	Influence of Gold Nanoparticle Film Porosity on the Chemiresistive Sensing Performance. <i>Electroanalysis</i> , <b>2013</b> , 25, n/a-n/a	3	2
17	Gold nanoparticle chemiresistors operating in biological fluids. <i>Lab on A Chip</i> , <b>2012</b> , 12, 3040-8	7.2	18
16	Dynamic response of gold nanoparticle chemiresistors to organic analytes in aqueous solution. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 18208-16	3.6	14
15	Functionalized graphene as an aqueous phase chemiresistor sensing material. <i>Sensors and Actuators B: Chemical</i> , <b>2011</b> , 155, 154-158	8.5	38
14	Chemical Sensor Array That Can Differentiate Complex Hydrocarbon Mixtures Dissolved in Seawater. <i>Sensor Letters</i> , <b>2011</b> , 9, 609-611	0.9	7
13	Characterization of the Sensor Response of Gold Nanoparticle Chemiresistors. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 17529-17534	3.8	20
12	Gold nanoparticle chemiresistor sensor array that differentiates between hydrocarbon fuels dissolved in artificial seawater. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 3788-95	7.8	51

11	Electrical noise in gold nanoparticle chemiresistors: Effects of measurement environment and organic linker properties <b>2010</b> ,		2
10	Investigation of PtCoCr/C catalysts for methanol electro-oxidation identified by a thin film combinatorial method. <i>Journal of Power Sources</i> , <b>2009</b> , 192, 391-395	8.9	24
9	Methanol electro-oxidation by a ternary PtRuCu catalyst identified by a combinatorial approach. <i>Journal of Power Sources</i> , <b>2008</b> , 185, 913-916	8.9	44
8	Combinatorial screening of ternary PtNiCr catalysts for methanol electro-oxidation. <i>Electrochemistry Communications</i> , <b>2008</b> , 10, 1545-1547	5.1	23
7	SECM imaging of electrocatalytic activity for oxygen reduction reaction on thin film materials. <i>Electrochimica Acta</i> , <b>2007</b> , 52, 5172-5181	6.7	25
6	Combinatorial screening of fuel cell cathode catalyst compositions. <i>Applied Surface Science</i> , <b>2007</b> , 254, 662-668	6.7	48
5	Combinatorial screening of thin film electrocatalysts for a direct methanol fuel cell anode. <i>Journal of Power Sources</i> , <b>2006</b> , 163, 330-338	8.9	74
4	SECM characterization of PtRuWC and PtRuCo ternary thin film combinatorial libraries as anode electrocatalysts for PEMFC. <i>Journal of Power Sources</i> , <b>2006</b> , 161, 106-114	8.9	59
3	Scanning electrochemical microscope characterization of thin film combinatorial libraries for fuel cell electrode applications. <i>Measurement Science and Technology</i> , <b>2005</b> , 16, 174-182	2	49
2	Plasma sputtering system for deposition of thin film combinatorial libraries. <i>Review of Scientific Instruments</i> , <b>2005</b> , 76, 062221	1.7	17
1	Scanning electrochemical microscope characterization of thin film PtRu alloys for fuel cell applications. <i>Chemical Engineering Science</i> , <b>2004</b> , 59, 4839-4845	4.4	15