

James F Rusling

List of Publications by Year in descending order

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291
papers

20,535
citations

8159

76
h-index

12910

131
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all docs

304
docs citations

304
times ranked

16603
citing authors

#	ARTICLE	IF	CITATIONS
1	Targeted Killing of Cancer Cells <i>in Vivo</i> and <i>in Vitro</i> with EGF-Directed Carbon Nanotube-Based Drug Delivery. <i>ACS Nano</i> , 2009, 3, 307-316.	7.3	796
2	Carbon Nanotube Amplification Strategies for Highly Sensitive Immunodetection of Cancer Biomarkers. <i>Journal of the American Chemical Society</i> , 2006, 128, 11199-11205.	6.6	668
3	Enzyme Bioelectrochemistry in Cast Biomembrane-Like Films. <i>Accounts of Chemical Research</i> , 1998, 31, 363-369.	7.6	529
4	Ultrasensitive Immunosensor for Cancer Biomarker Proteins Using Gold Nanoparticle Film Electrodes and Multienzyme-Particle Amplification. <i>ACS Nano</i> , 2009, 3, 585-594.	7.3	490
5	Direct Electrochemistry of Myoglobin and Cytochrome P450cam in Alternate Layer-by-Layer Films with DNA and Other Polyions. <i>Journal of the American Chemical Society</i> , 1998, 120, 4073-4080.	6.6	484
6	Measurement of biomarker proteins for point-of-care early detection and monitoring of cancer. <i>Analyst</i> , 2010, 135, 2496.	1.7	469
7	Carbon Nanotubes for Electronic and Electrochemical Detection of Biomolecules. <i>Advanced Materials</i> , 2007, 19, 3214-3228.	11.1	460
8	Enhanced electron transfer for myoglobin in surfactant films on electrodes. <i>Journal of the American Chemical Society</i> , 1993, 115, 11891-11897.	6.6	456
9	Peroxidase activity of enzymes bound to the ends of single-wall carbon nanotube forest electrodes. <i>Electrochemistry Communications</i> , 2003, 5, 408-411.	2.3	397
10	Ultrasensitive Electrochemical Immunosensor for Oral Cancer Biomarker IL-6 Using Carbon Nanotube Forest Electrodes and Multilabel Amplification. <i>Analytical Chemistry</i> , 2010, 82, 3118-3123.	3.2	336
11	Electron Transfer from Electrodes to Myoglobin: Facilitated in Surfactant Films and Blocked by Adsorbed Biomacromolecules. <i>Analytical Chemistry</i> , 1995, 67, 2386-2392.	3.2	265
12	Proton-Coupled Electron Transfer from Electrodes to Myoglobin in Ordered Biomembrane-like Films. <i>Journal of Physical Chemistry B</i> , 1997, 101, 2224-2231.	1.2	245
13	Controlling the Active Sites of Sulfur-Doped Carbon Nanotube-Graphene Nanolobes for Highly Efficient Oxygen Evolution and Reduction Catalysis. <i>Advanced Energy Materials</i> , 2016, 6, 1501966.	10.2	242
14	Simultaneous Direct Electrochemiluminescence and Catalytic Voltammetry Detection of DNA in Ultrathin Films. <i>Journal of the American Chemical Society</i> , 2003, 125, 5213-5218.	6.6	240
15	Electroactive Myoglobin Films Grown Layer-by-Layer with Poly(styrenesulfonate) on Pyrolytic Graphite Electrodes. <i>Langmuir</i> , 2000, 16, 4969-4975.	1.6	224
16	Carbon Nanotube Microwell Array for Sensitive Electrochemiluminescent Detection of Cancer Biomarker Proteins. <i>Analytical Chemistry</i> , 2011, 83, 6698-6703.	3.2	217
17	Electrochemical and Electron Spectroscopic Studies of Highly Polished Glassy Carbon Electrodes. <i>Analytical Chemistry</i> , 1985, 57, 545-551.	3.2	215
18	Microfluidic electrochemical immunoarray for ultrasensitive detection of two cancer biomarker proteins in serum. <i>Biosensors and Bioelectronics</i> , 2011, 26, 4477-4483.	5.3	209

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19	Heme Protein ⁺ Clay Films: A Direct Electrochemistry and Electrochemical Catalysis. <i>Langmuir</i> , 2002, 18, 211-219.	1.6	208
20	Ligand-Free Noble Metal Nanocluster Catalysts on Carbon Supports via CO_2 Nitriding. <i>Journal of the American Chemical Society</i> , 2016, 138, 4718-4721.	6.6	204
21	Controlling electrochemical catalysis with surfactant microstructures. <i>Accounts of Chemical Research</i> , 1991, 24, 75-81.	7.6	201
22	Electrochemical Catalysis of Styrene Epoxidation with Films of MnO_2 Nanoparticles and H_2O_2 . <i>Journal of the American Chemical Society</i> , 2004, 126, 7676-7682.	6.6	195
23	Ultrasensitive Detection of Cancer Biomarkers in the Clinic by Use of a Nanostructured Microfluidic Array. <i>Analytical Chemistry</i> , 2012, 84, 6249-6255.	3.2	187
24	Attomolar Detection of a Cancer Biomarker Protein in Serum by Surface Plasmon Resonance Using Superparamagnetic Particle Labels. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 1175-1178.	7.2	179
25	Robust Mesoporous Manganese Oxide Catalysts for Water Oxidation. <i>ACS Catalysis</i> , 2015, 5, 1693-1699.	5.5	178
26	Driving Forces for Layer-by-Layer Self-Assembly of Films of SiO_2 Nanoparticles and Heme Proteins. <i>Langmuir</i> , 2004, 20, 722-729.	1.6	175
27	Films of Manganese Oxide Nanoparticles with Polycations or Myoglobin from Alternate-Layer Adsorption. <i>Langmuir</i> , 2000, 16, 8850-8857.	1.6	165
28	Direct electron injection from electrodes to cytochrome P450cam in biomembrane-like films. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1997, 93, 1769-1774.	1.7	162
29	An amperometric biosensor with human CYP3A4 as a novel drug screening tool. <i>Biochemical Pharmacology</i> , 2003, 65, 1817-1826.	2.0	160
30	Direct Voltammetry and Catalysis with <i>Mycobacterium tuberculosis</i> Catalase ⁺ Peroxidase, Peroxidases, and Catalase in Lipid Films. <i>Analytical Chemistry</i> , 2002, 74, 163-170.	3.2	159
31	Toxicity Screening by Electrochemical Detection of DNA Damage by Metabolites Generated In Situ in Ultrathin DNA ⁺ Enzyme Films. <i>Journal of the American Chemical Society</i> , 2003, 125, 1431-1436.	6.6	153
32	Nanostructured Immunosensor for Attomolar Detection of Cancer Biomarker Interleukin ⁸ Using Massively Labeled Superparamagnetic Particles. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 7915-7918.	7.2	153
33	Catalytic Reduction of Organohalide Pollutants by Myoglobin in a Biomembrane-like Surfactant Film. <i>Journal of the American Chemical Society</i> , 1995, 117, 10986-10993.	6.6	151
34	COVID-19 Antibody Tests and Their Limitations. <i>ACS Sensors</i> , 2021, 6, 593-612.	4.0	150
35	Layer-by-Layer Assembly of Ultrathin Films of Hemoglobin and Clay Nanoparticles with Electrochemical and Catalytic Activity. <i>Langmuir</i> , 2002, 18, 8573-8579.	1.6	148
36	3D-printed supercapacitor-powered electrochemiluminescent protein immunoarray. <i>Biosensors and Bioelectronics</i> , 2016, 77, 188-193.	5.3	147

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37	Single-Wall Carbon Nanotube Forest Arrays for Immunochemical Measurement of Four Protein Biomarkers for Prostate Cancer. <i>Analytical Chemistry</i> , 2009, 81, 9129-9134.	3.2	145
38	Site-selective orientated immobilization of antibodies and conjugates for immunodiagnostics development. <i>Methods</i> , 2017, 116, 95-111.	1.9	145
39	Electron Transfer between Electrodes and Heme Proteins in Protein-DNA Films. <i>Journal of the American Chemical Society</i> , 1996, 118, 3043-3044.	6.6	144
40	Ordered Electrochemically Active Films of Hemoglobin, Didodecyldimethylammonium Ions, and Clay. <i>Langmuir</i> , 1999, 15, 7022-7030.	1.6	143
41	Characterizing Materials with Cyclic Voltammetry. <i>Advanced Materials</i> , 1994, 6, 922-930.	11.1	134
42	Fe ₃ O ₄ nanoparticles on graphene oxide sheets for isolation and ultrasensitive amperometric detection of cancer biomarker proteins. <i>Biosensors and Bioelectronics</i> , 2017, 91, 359-366.	5.3	134
43	Inkjet-printed gold nanoparticle electrochemical arrays on plastic. Application to immunodetection of a cancer biomarker protein. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 4888.	1.3	132
44	Composite Films of Surfactants, Nafion, and Proteins with Electrochemical and Enzyme Activity. <i>Langmuir</i> , 1996, 12, 5472-5480.	1.6	125
45	3D-Printed Fluidic Devices for Nanoparticle Preparation and Flow-Injection Amperometry Using Integrated Prussian Blue Nanoparticle-Modified Electrodes. <i>Analytical Chemistry</i> , 2015, 87, 5437-5443.	3.2	122
46	Direct Electrochemiluminescence Detection of Oxidized DNA in Ultrathin Films Containing [Os(bpy) ₂ (PVP) ₁₀] ²⁺ . <i>Journal of the American Chemical Society</i> , 2004, 126, 8835-8841.	6.6	121
47	Electron transfer between myoglobin and electrodes in thin films of phosphatidylcholines and dihexadecylphosphate. <i>Biophysical Chemistry</i> , 1997, 63, 133-146.	1.5	117
48	Automated Multiplexed ECL Immunoarrays for Cancer Biomarker Proteins. <i>Analytical Chemistry</i> , 2015, 87, 4472-4478.	3.2	115
49	Multiplexed Electrochemical Protein Detection and Translation to Personalized Cancer Diagnostics. <i>Analytical Chemistry</i> , 2013, 85, 5304-5310.	3.2	113
50	Tunable mesoporous manganese oxide for high performance oxygen reduction and evolution reactions. <i>Journal of Materials Chemistry A</i> , 2016, 4, 620-631.	5.2	113
51	Designing nanomaterial-enhanced electrochemical immunosensors for cancer biomarker proteins. <i>Bioelectrochemistry</i> , 2009, 76, 189-194.	2.4	112
52	Protein immunosensor using single-wall carbon nanotube forests with electrochemical detection of enzyme labels. <i>Molecular BioSystems</i> , 2005, 1, 70.	2.9	108
53	On-line protein capture on magnetic beads for ultrasensitive microfluidic immunoassays of cancer biomarkers. <i>Biosensors and Bioelectronics</i> , 2014, 53, 268-274.	5.3	108
54	Detection of Chemically Induced DNA Damage in Layered Films by Catalytic Square Wave Voltammetry Using Ru(Bpy) ₃ ²⁺ . <i>Analytical Chemistry</i> , 2001, 73, 4780-4786.	3.2	106

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55	Scanning Electrochemical Microscopy of Living Cells. 3.Rhodobactersphaeroides. Analytical Chemistry, 2002, 74, 114-119.	3.2	106
56	Electrochemiluminescent Arrays for Cytochrome P450-Activated Genotoxicity Screening. DNA Damage from Benzo[a]pyrene Metabolites. Analytical Chemistry, 2007, 79, 1897-1906.	3.2	106
57	Electrochemical immunosensors for interleukin-6. Comparison of carbon nanotube forest and gold nanoparticle platforms. Electrochemistry Communications, 2009, 11, 1009-1012.	2.3	106
58	Electrochemiluminescent immunosensor for detection of protein cancer biomarkers using carbon nanotube forests and [Ru-(bpy) ₃] ²⁺ -doped silica nanoparticles. Chemical Communications, 2009, , 4968.	2.2	104
59	Multiplexed Immunosensors and Immunoarrays. Analytical Chemistry, 2020, 92, 345-362.	3.2	102
60	Electrochemical catalysis with redox polymer and polyionâ€“protein films. Journal of Colloid and Interface Science, 2003, 262, 1-15.	5.0	101
61	Sensors for toxicity of chemicals and oxidative stress based on electrochemical catalytic DNA oxidation. Biosensors and Bioelectronics, 2004, 20, 1022-1028.	5.3	97
62	Optimization of Electrochemical and Peroxide-Driven Oxidation of Styrene with Ultrathin Polyion Films Containing Cytochrome P450cam and Myoglobin. ChemBioChem, 2003, 4, 82-89.	1.3	95
63	High-Throughput Electrochemical Microfluidic Immunoarray for Multiplexed Detection of Cancer Biomarker Proteins. ACS Sensors, 2016, 1, 1036-1043.	4.0	94
64	Biochemical applications of ultrathin films of enzymes, polyions and DNA. Chemical Communications, 2008, , 141-154.	2.2	93
65	Electrochemistry and Catalysis with Myoglobin in Hydrated Poly(ester sulfonic acid) Ionomer Films. Langmuir, 1997, 13, 4119-4125.	1.6	91
66	Resistive-pulse measurements with nanopipettes: detection of Au nanoparticles and nanoparticle-bound anti-peanut IgY. Chemical Science, 2013, 4, 655-663.	3.7	90
67	Ultrathin Films. DNA Damage from Methylating Agents and an Enzyme-Generated Epoxide. Analytical Chemistry, 2003, 75, 4229-4235.	3.2	88
68	Efficient Bioelectronic Actuation of the Natural Catalytic Pathway of Human Metabolic Cytochrome P450s. Journal of the American Chemical Society, 2011, 133, 1459-1465.	6.6	88
69	A microfluidic electrochemiluminescent device for detecting cancer biomarker proteins. Analytical and Bioanalytical Chemistry, 2013, 405, 3831-3838.	1.9	88
70	Ultrathin Grapheneâ€“Protein Supercapacitors for Miniaturized Bioelectronics. Advanced Energy Materials, 2017, 7, 1700358.	10.2	88
71	Multiplex Immunosensor Arrays for Electrochemical Detection of Cancer Biomarker Proteins. Electroanalysis, 2016, 28, 2644-2658.	1.5	84
72	Electroenzyme-Catalyzed Oxidation of Styrene and cis- ¹² -Methylstyrene Using Thin Films of Cytochrome P450cam and Myoglobin. Langmuir, 1999, 15, 7372-7377.	1.6	82

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73	Mediated amperometric immunosensing using single walled carbon nanotube forests. <i>Analyst</i> , The, 2004, 129, 1176.	1.7	81
74	Liquid/Liquid Interface as a Model System for Studying Electrochemical Catalysis in Microemulsions. Reduction of trans-1,2-Dibromocyclohexane with Vitamin B12. <i>Journal of Physical Chemistry B</i> , 1997, 101, 3202-3208.	1.2	80
75	Square Wave Voltammetric Detection of Chemical DNA Damage with Catalytic Poly(4-Vinylpyridine) \sim Ru(bpy) $_2$ +Films. <i>Analytical Chemistry</i> , 2002, 74, 4044-4049.	3.2	80
76	Epoxidation of styrene by human cyt P450 1A2 by thin film electrolysis and peroxide activation compared to solution reactions. <i>Biophysical Chemistry</i> , 2003, 104, 291-296.	1.5	77
77	Electrochemical Generation and Reactions of Ferrylmyoglobins in Water and Microemulsions. <i>Journal of the American Chemical Society</i> , 1997, 119, 3979-3986.	6.6	76
78	Surfactant-intercalated clay films for electrochemical catalysis. Reduction of trichloroacetic acid. <i>Analytical Chemistry</i> , 1991, 63, 2163-2168.	3.2	75
79	Paper-Based Electrochemiluminescent Screening for Genotoxic Activity in the Environment. <i>Environmental Science & Technology</i> , 2013, 47, 1937-1944.	4.6	74
80	Dechlorination of polychlorinated biphenyls by electrochemical catalysis in a bicontinuous microemulsion. <i>Environmental Science & Technology</i> , 1993, 27, 1375-1380.	4.6	72
81	Kinetic Control of Reactions of Electrogenated Co(I) Macrocycles with Alkyl Bromides in a Bicontinuous Microemulsion. <i>Journal of the American Chemical Society</i> , 1995, 117, 1127-1134.	6.6	72
82	Fabrication of immunosensor microwell arrays from gold compact discs for detection of cancer biomarker proteins. <i>Lab on A Chip</i> , 2012, 12, 281-286.	3.1	72
83	Electron Transfer Reactions of Redox Cofactors in Spinach Photosystem I Reaction Center Protein in Lipid Films on Electrodes. <i>Journal of the American Chemical Society</i> , 2003, 125, 12457-12463.	6.6	71
84	Partial Surface Selenization of Cobalt Sulfide Microspheres for Enhancing the Hydrogen Evolution Reaction. <i>ACS Catalysis</i> , 2019, 9, 456-465.	5.5	71
85	Direct Electrochemistry of Cofactor Redox Sites in a Bacterial Photosynthetic Reaction Center Protein. <i>Journal of the American Chemical Society</i> , 1998, 120, 7371-7372.	6.6	69
86	Ultrathin Layered Myoglobin \sim Polyion Films Functional and Stable at Acidic pH Values. <i>Journal of the American Chemical Society</i> , 2002, 124, 12515-12521.	6.6	69
87	3D-Printed Biosensor Arrays for Medical Diagnostics. <i>Micromachines</i> , 2018, 9, 394.	1.4	69
88	Electrochemical Immunosensors for Antibodies to Peanut Allergen Ara h2 Using Gold Nanoparticle \sim Peptide Films. <i>Analytical Chemistry</i> , 2010, 82, 5865-5871.	3.2	68
89	Improved penicillin selective enzyme electrode. <i>Analytical Chemistry</i> , 1974, 46, 1955-1961.	3.2	67
90	Electroactive Core \sim Shell Nanocluster Films of Heme Proteins, Polyelectrolytes, and Silica Nanoparticles. <i>Langmuir</i> , 2004, 20, 10700-10705.	1.6	67

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91	Automated 3D-printed unibody immunoarray for chemiluminescence detection of cancer biomarker proteins. <i>Lab on A Chip</i> , 2017, 17, 484-489.	3.1	66
92	A microfluidic electrochemical device for high sensitivity biosensing: Detection of nanomolar hydrogen peroxide. <i>Electrochemistry Communications</i> , 2009, 11, 819-822.	2.3	65
93	Voltammetric Sensor for Oxidized DNA Using Ultrathin Films of Osmium and Ruthenium Metallopolymers. <i>Analytical Chemistry</i> , 2004, 76, 5557-5563.	3.2	64
94	Determination of standard potentials and electron-transfer rates for halobiphenyls from electrocatalytic data. <i>Analytical Chemistry</i> , 1985, 57, 170-174.	3.2	63
95	Diffusion of micelle-bound molecules to electrodes in solutions of ionic surfactants. <i>Analytical Chemistry</i> , 1988, 60, 1260-1267.	3.2	63
96	Electrochemical properties of myoglobin embedded in Langmuir-Blodgett and cast films of synthetic lipids. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1995, 91, 1775-1782.	1.7	62
97	Nickel(II)meso-Tetraphenyl-Homoporphyrins, -secochlorins, and -chlorophin: Control of Redox Chemistry by Macrocycle Rigidity. <i>Journal of the American Chemical Society</i> , 2000, 122, 6679-6685.	6.6	62
98	New and emerging technologies for genetic toxicity testing. <i>Environmental and Molecular Mutagenesis</i> , 2011, 52, 205-223.	0.9	62
99	Disposable inkjet-printed electrochemical platform for detection of clinically relevant HER-2 breast cancer biomarker. <i>Biosensors and Bioelectronics</i> , 2018, 104, 158-162.	5.3	62
100	Orientation of myoglobin in cast multibilayer membranes of amphiphilic molecules. <i>The Journal of Physical Chemistry</i> , 1995, 99, 11013-11017.	2.9	61
101	Bioelectronic Delivery of Electrons to Cytochrome P450 Enzymes. <i>Journal of Physical Chemistry B</i> , 2011, 115, 8371-8380.	1.2	61
102	Dechlorination of Polychlorinated Biphenyls on Soils and Clay by Electrolysis in a Bicontinuous Microemulsion. <i>Environmental Science & Technology</i> , 1995, 29, 1195-1199.	4.6	60
103	Developing Microfluidic Sensing Devices Using 3D Printing. <i>ACS Sensors</i> , 2018, 3, 522-526.	4.0	60
104	Bicontinuous microemulsions as media for electrochemical studies. <i>Analytical Chemistry</i> , 1990, 62, 644-649.	3.2	59
105	Wiring of Enzymes to Electrodes by Ultrathin Conductive Polyion Underlayers: Enhanced Catalytic Response to Hydrogen Peroxide. <i>Analytical Chemistry</i> , 2003, 75, 4565-4571.	3.2	59
106	Sensitive electrochemical immunosensor for matrix metalloproteinase-3 based on single-wall carbon nanotubes. <i>Analyst</i> , 2010, 135, 1345.	1.7	57
107	Electrochemistry-based approaches to low cost, high sensitivity, automated, multiplexed protein immunoassays for cancer diagnostics. <i>Analyst</i> , 2016, 141, 536-547.	1.7	57
108	Protein Film Electrochemistry of Microsomes Genetically Enriched in Human Cytochrome P450 Monooxygenases. <i>Journal of the American Chemical Society</i> , 2005, 127, 13460-13461.	6.6	56

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109	Magnetic particles in ultrasensitive biomarker protein measurements for cancer detection and monitoring. <i>Expert Opinion on Medical Diagnostics</i> , 2011, 5, 381-391.	1.6	55
110	High sensitivity carbon nanotube based electrochemiluminescence sensor array. <i>Biosensors and Bioelectronics</i> , 2012, 31, 233-239.	5.3	55
111	Nickel(II) Complexes with Tetra- and Pentadentate Aminopyridine Ligands:Â Synthesis, Structure, Electrochemistry, and Reduction to Nickel(I) Species. <i>Inorganic Chemistry</i> , 2002, 41, 923-930.	1.9	54
112	Synergistic Metabolic Toxicity Screening Using Microsome/DNA Electrochemiluminescent Arrays and Nanoreactors. <i>Analytical Chemistry</i> , 2008, 80, 5279-5285.	3.2	54
113	Automated 3D-Printed Microfluidic Array for Rapid Nanomaterial-Enhanced Detection of Multiple Proteins. <i>Analytical Chemistry</i> , 2018, 90, 7569-7577.	3.2	54
114	Nanomaterials and biomaterials in electrochemical arrays for protein detection. <i>Journal of Materials Chemistry B</i> , 2014, 2, 12-30.	2.9	53
115	An Ultra-Shapeable, Smart Sensing Platform Based on a Multimodal Ferrofluid-Infused Surface. <i>Advanced Materials</i> , 2019, 31, e1807201.	11.1	53
116	3D-printed miniaturized fluidic tools in chemistry and biology. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 106, 37-52.	5.8	52
117	High-speed multilayer film assembly by alternate adsorption of silica nanoparticles and linear polycation. <i>Chemical Communications</i> , 1998, , 1229-1230.	2.2	51
118	Cancer Diagnostics via Ultrasensitive Multiplexed Detection of Parathyroid Hormone-Related Peptides with a Microfluidic Immunoarray. <i>Analytical Chemistry</i> , 2016, 88, 9269-9275.	3.2	51
119	3D-printed bioanalytical devices. <i>Nanotechnology</i> , 2016, 27, 284002.	1.3	51
120	Nanomaterials-based electrochemical immunosensors for proteins. <i>Chemical Record</i> , 2012, 12, 164-176.	2.9	49
121	Highly Efficient Binding of Paramagnetic Beads Bioconjugated with 100,000 or More Antibodies to Protein-Coated Surfaces. <i>Analytical Chemistry</i> , 2012, 84, 10485-10491.	3.2	48
122	Biocatalytic anode for glucose oxidation utilizing carbon nanotubes for direct electron transfer with glucose oxidase. <i>Electrochemistry Communications</i> , 2009, 11, 2004-2007.	2.3	46
123	Gold Nanoparticles with Externally Controlled, Reversible Shifts of Local Surface Plasmon Resonance Bands. <i>Langmuir</i> , 2009, 25, 13120-13124.	1.6	46
124	Ultrasensitive microfluidic array for serum pro-inflammatory cytokines and C-reactive protein to assess oral mucositis risk in cancer patients. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 7239-7243.	1.9	46
125	Electrochemiluminescent/voltammetric toxicity screening sensor using enzyme-generated DNA damage. <i>Biosensors and Bioelectronics</i> , 2007, 23, 492-498.	5.3	45
126	Electrochemiluminescence at Bare and DNA-Coated Graphite Electrodes in 3D-Printed Fluidic Devices. <i>ACS Sensors</i> , 2016, 1, 197-202.	4.0	45

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127	Influence of antibody immobilization strategy on carbon electrode immunoarrays. <i>Analyst</i> , 2019, 144, 5108-5116.	1.7	45
128	THIN FILMS ON ELECTRODES FOR DIRECT PROTEIN ELECTRON TRANSFER. , 2001, , 33-71.		45
129	Carbon-Carbon Bond Formation by Electrochemical Catalysis in Conductive Microemulsions. <i>Journal of Organic Chemistry</i> , 1996, 61, 5972-5977.	1.7	44
130	Quantitative Measurement of DNA Adducts Using Neutral Hydrolysis and LC-MS. Validation of Genotoxicity Sensors. <i>Analytical Chemistry</i> , 2005, 77, 2056-2062.	3.2	44
131	Antibody-like Biorecognition Sites for Proteins from Surface Imprinting on Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 28197-28206.	4.0	44
132	Covalently Linked Scaffold of Cobalt Corrins on Graphite for Electrochemical Catalysis in Microemulsions. <i>Journal of the American Chemical Society</i> , 1999, 121, 2909-2914.	6.6	43
133	Rapid Microfluidic Immunoassays of Cancer Biomarker Proteins Using Disposable Inkjet-Printed Gold Nanoparticle Arrays. <i>ChemistryOpen</i> , 2013, 2, 141-145.	0.9	43
134	Detecting cancer metastasis and accompanying protein biomarkers at single cell levels using a 3D-printed microfluidic immunoarray. <i>Biosensors and Bioelectronics</i> , 2021, 171, 112681.	5.3	43
135	Radical vs Anionic Pathway in Mediated Electrochemical Reduction of Benzyl Bromide in a Bicontinuous Microemulsion. <i>Langmuir</i> , 1996, 12, 3067-3074.	1.6	42
136	Genotoxicity screening for N-nitroso compounds. Electrochemical and electrochemiluminescent detection of human enzyme-generated DNA damage from N-nitrosopyrrolidine. <i>Chemical Communications</i> , 2007, , 1713.	2.2	42
137	All printable snow-based triboelectric nanogenerator. <i>Nano Energy</i> , 2019, 60, 17-25.	8.2	42
138	Exposure, health effects, sensing, and remediation of the emerging PFAS contaminants – Scientific challenges and potential research directions. <i>Science of the Total Environment</i> , 2021, 780, 146399.	3.9	42
139	Removal of Chloride from 4-Chlorobiphenyl and 4,4-Dichlorobiphenyl by Electrocatalytic Reduction. <i>Journal of the Electrochemical Society</i> , 1983, 130, 1120-1121.	1.3	41
140	Sequential Layer Analysis of Protein Immunosensors Based on Single Wall Carbon Nanotube Forests. <i>Langmuir</i> , 2010, 26, 15050-15056.	1.6	41
141	Charge-Dependent Sidedness of Cytochrome P450 Forms Studied by Quartz Crystal Microbalance and Atomic Force Microscopy. <i>Archives of Biochemistry and Biophysics</i> , 2001, 385, 78-87.	1.4	40
142	Fast nucleation for silica nanoparticle synthesis using a sol-gel method. <i>Nanoscale</i> , 2016, 8, 19662-19667.	2.8	40
143	Applications of polyion films containing biomolecules to sensing toxicity. <i>Faraday Discussions</i> , 2000, 116, 77-87.	1.6	39
144	Resistive-Pulse Measurements with Nanopipettes: Detection of Vascular Endothelial Growth Factor C (VEGF-C) Using Antibody-Decorated Nanoparticles. <i>Analytical Chemistry</i> , 2015, 87, 6403-6410.	3.2	39

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145	Unconventional structural and morphological transitions of nanosheets, nanoflakes and nanorods of AuNP@MnO ₂ . Journal of Materials Chemistry A, 2016, 4, 6447-6455.	5.2	39
146	Automated 3-D Printed Arrays to Evaluate Genotoxic Chemistry: E-Cigarettes and Water Samples. ACS Sensors, 2017, 2, 670-678.	4.0	39
147	Oscillating Formation of 8-Oxoguanine during DNA Oxidation. Journal of the American Chemical Society, 2003, 125, 6604-6605.	6.6	37
148	Myoglobin retains iron heme and near-native conformation in DDAB films prepared from pH 5 to 7 dispersions. Electrochemistry Communications, 2006, 8, 455-459.	2.3	37
149	Thin Film Voltammetry of Spinach Photosystem II. Proton-Gated Electron Transfer Involving the Mn4Cluster. Journal of the American Chemical Society, 2006, 128, 14930-14937.	6.6	36
150	Highly sensitive and reusable Pt-black microfluidic electrodes for long-term electrochemical sensing. Biosensors and Bioelectronics, 2010, 26, 682-688.	5.3	36
151	Evaluating Enzymes That Generate Genotoxic Benzo[a]pyrene Metabolites Using Sensor Arrays. Analytical Chemistry, 2005, 77, 1361-1367.	3.2	35
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