Shana O Kelley

List of Publications by Year
in descending order

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285 papers	27,759 citations	4120 87 h-index	6454 157 g-index
304 all docs	304 docs citations	304 times ranked	29262 citing authors

#	Article	IF	Citations
1	Efficient recovery of potent tumour-infiltrating lymphocytes through quantitative immunomagnetic cell sorting. Nature Biomedical Engineering, 2022, 6, 108-117.	11.6	31
2	Challenges and Opportunities for Wearable Sensing Systems. ACS Sensors, 2022, 7, 345-346.	4.0	4
3	PillarX: A Microfluidic Device to Profile Circulating Tumor Cell Clusters Based on Geometry, Deformability, and Epithelial State. Small, 2022, 18, e2106097.	5.2	17
4	Rapid On-Cell Selection of High-Performance Human Antibodies. ACS Central Science, 2022, 8, 102-109.	5.3	6
5	Nanoparticle Amplification Labeling for High-Performance Magnetic Cell Sorting. Nano Letters, 2022, 22, 4774-4783.	4.5	13
6	Tracking the expression of therapeutic protein targets in rare cells by antibody-mediated nanoparticle labelling and magnetic sorting. Nature Biomedical Engineering, 2021, 5, 41-52.	11.6	40
7	2021: A Year Starting Full of Hope. ACS Sensors, 2021, 6, 1-2.	4.0	0
8	Detection of SARS-CoV-2 Viral Particles Using Direct, Reagent-Free Electrochemical Sensing. Journal of the American Chemical Society, 2021, 143, 1722-1727.	6.6	156
9	Bacterial classification and antibiotic susceptibility testing on an integrated microfluidic platform. Lab on A Chip, 2021, 21, 4208-4222.	3.1	23
10	Circulating tumor cell profiling for precision oncology. Molecular Oncology, 2021, 15, 1622-1646.	2.1	33
11	Reagentless biomolecular analysis using a molecular pendulum. Nature Chemistry, 2021, 13, 428-434.	6.6	70
12	COVID-19: A Crisis Creating New Opportunities for Sensing. ACS Sensors, 2021, 6, 1407-1407.	4.0	2
13	Strategies for Biomolecular Analysis and Continuous Physiological Monitoring. Journal of the American Chemical Society, 2021, 143, 5281-5294.	6.6	54
14	Mitochondrial ATP fuels ABC transporter-mediated drug efflux in cancer chemoresistance. Nature Communications, 2021, 12, 2804.	5.8	77
15	Multifunctional 3D-Printed Wound Dressings. ACS Nano, 2021, 15, 12375-12387.	7.3	104
16	Multication perovskite 2D/3D interfaces form via progressive dimensional reduction. Nature Communications, 2021, 12, 3472.	5.8	89
17	Bright and Stable Light-Emitting Diodes Based on Perovskite Quantum Dots in Perovskite Matrix. Journal of the American Chemical Society, 2021, 143, 15606-15615.	6.6	94
18	Ultrasensitive Detection and Depletion of Rare Leukemic B Cells in T Cell Populations via Immunomagnetic Cell Ranking. Analytical Chemistry, 2021, 93, 2327-2335.	3.2	10

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19	AbCellera's success is unprecedented: what have we learned?. Lab on A Chip, 2021, 21, 2330-2332.	3.1	2
20	A microfluidic platform enables comprehensive gene expression profiling of mouse retinal stem cells. Lab on A Chip, 2021, 21, 4464-4476.	3.1	3
21	Cell-free DNA and circulating tumor cell kinetics in a pre-clinical head and neck Cancer model undergoing radiation therapy. BMC Cancer, 2021, 21, 1075.	1.1	10
22	Phage-Based Profiling of Rare Single Cells Using Nanoparticle-Directed Capture. ACS Nano, 2021, 15, 19202-19210.	7.3	14
23	Highâ€Performance Nucleic Acid Sensors for Liquid Biopsy Applications. Angewandte Chemie - International Edition, 2020, 59, 2554-2564.	7.2	61
24	Highâ€Performance Nucleic Acid Sensors for Liquid Biopsy Applications. Angewandte Chemie, 2020, 132, 2574-2584.	1.6	54
25	Catalyst synthesis under CO2 electroreduction favours faceting and promotes renewable fuels electrosynthesis. Nature Catalysis, 2020, 3, 98-106.	16.1	325
26	A New Era in Liquid Biopsy: From Genotype to Phenotype. Clinical Chemistry, 2020, 66, 89-96.	1.5	27
27	Nanostructured Architectures for Biomolecular Detection inside and outside the Cell. Advanced Functional Materials, 2020, 30, 1907701.	7.8	19
28	A multiplexed, electrochemical interface for gene-circuit-based sensors. Nature Chemistry, 2020, 12, 48-55.	6.6	98
29	Cascade surface modification of colloidal quantum dot inks enables efficient bulk homojunction photovoltaics. Nature Communications, 2020, 11, 103.	5.8	181
30	Naphthalenediimide Cations Inhibit 2D Perovskite Formation and Facilitate Subpicosecond Electron Transfer. Journal of Physical Chemistry C, 2020, 124, 24379-24390.	1.5	17
31	A liquid biopsy for detecting circulating mesothelial precursor cells: A new biomarker for diagnosis and prognosis in mesothelioma. EBioMedicine, 2020, 61, 103031.	2.7	7
32	Magnetic Ranking Cytometry: Profiling Rare Cells at the Single-Cell Level. Accounts of Chemical Research, 2020, 53, 1445-1457.	7.6	18
33	Mitochondrial Targeting of Probes and Therapeutics to the Powerhouse of the Cell. Bioconjugate Chemistry, 2020, 31, 2650-2667.	1.8	27
34	Bioinspiration in light harvesting and catalysis. Nature Reviews Materials, 2020, 5, 828-846.	23.3	136
35	Celebrating Rising Stars in Sensing. ACS Sensors, 2020, 5, 2263-2263.	4.0	0
36	Fluorescent Droplet Cytometry for On-Cell Phenotype Tracking. Journal of the American Chemical Society, 2020, 142, 14805-14809.	6.6	15

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37	Nanostructured Architectures Promote the Mesenchymalâ€“Epithelial Transition for Invasive Cells. ACS Nano, 2020, 14, 5324-5336.	7.3	17
38	Efficient electrically powered CO2-to-ethanol via suppression of deoxygenation. Nature Energy, 2020, 5, 478-486.	19.8	363
39	Ultrasensitive and rapid quantification of rare tumorigenic stem cells in hPSC-derived cardiomyocyte populations. Science Advances, 2020, 6, eaay7629.	4.7	28
40	Stable, Bromine-Free, Tetragonal Perovskites with 1.7 eV Bandgaps via A-Site Cation Substitution. , 2020, 2, 869-872.		18
41	Dimensional Mixing Increases the Efficiency of 2D/3D Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2020, 11, 5115-5119.	2.1	34
42	Regulating strain in perovskite thin films through charge-transport layers. Nature Communications, 2020, 11, 1514.	5.8	346
43	Combining Efficiency and Stability in Mixed Tinâ€“Lead Perovskite Solar Cells by Capping Grains with an Ultrathin 2D Layer. Advanced Materials, 2020, 32, e1907058.	11.1	148
44	Happy 5th Anniversary for ACS Sensors. ACS Sensors, 2020, 5, 1-2.	4.0	0
45	Multi-cation perovskites prevent carrier reflection from grain surfaces. Nature Materials, 2020, 19, 412-418.	13.3	100
46	Single-cell analysis targeting the proteome. Nature Reviews Chemistry, 2020, 4, 143-158.	13.8	157
47	Heterogeneous Supersaturation in Mixed Perovskites. Advanced Science, 2020, 7, 1903166.	5.6	13
48	Regioselective magnetization in semiconducting nanorods. Nature Nanotechnology, 2020, 15, 192-197.	15.6	51
49	Efficient near-infrared light-emitting diodes based on quantum dots in layered perovskite. Nature Photonics, 2020, 14, 227-233.	15.6	136
50	Transition Dipole Moments of n = 1, 2, and 3 Perovskite Quantum Wells from the Optical Stark Effect and Many-Body Perturbation Theory. Journal of Physical Chemistry Letters, 2020, 11, 716-723.	2.1	24
51	Ligand-Assisted Reconstruction of Colloidal Quantum Dots Decreases Trap State Density. Nano Letters, 2020, 20, 3694-3702.	4.5	46
52	Remembering NJ. ACS Sensors, 2020, 5, 887-888.	4.0	0
53	Abstract P4-01-12: The association of circulating tumor cells with tumor response in breast cancer patients undergoing neoadjuvant chemotherapy. , 2020, , .		0
54	Potentialâ€Responsive Surfaces for Manipulation of Cell Adhesion, Release, and Differentiation. Angewandte Chemie, 2019, 131, 14661-14665.	1.6	6

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55	Energy Level Tuning at the MAPbI₃ Perovskite/Contact Interface Using Chemical Treatment. ACS Energy Letters, 2019, 4, 2181-2184.	8.8	45
56	Photochemically Cross-Linked Quantum Well Ligands for 2D/3D Perovskite Photovoltaics with Improved Photovoltage and Stability. Journal of the American Chemical Society, 2019, 141, 14180-14189.	6.6	107
57	Ligand-Induced Surface Charge Density Modulation Generates Local Type-II Band Alignment in Reduced-Dimensional Perovskites. Journal of the American Chemical Society, 2019, 141, 13459-13467.	6.6	62
58	Potentialâ€Responsive Surfaces for Manipulation of Cell Adhesion, Release, and Differentiation. Angewandte Chemie - International Edition, 2019, 58, 14519-14523.	7.2	40
59	Phenotypic Profiling of Circulating Tumor Cells in Metastatic Prostate Cancer Patients Using Nanoparticle-Mediated Ranking. Analytical Chemistry, 2019, 91, 9348-9355.	3.2	29
60	Peptide-Functionalized Nanostructured Microarchitectures Enable Rapid Mechanotransductive Differentiation. ACS Applied Materials & Interfaces, 2019, 11, 41030-41037.	4.0	10
61	High-throughput genome-wide phenotypic screening via immunomagnetic cell sorting. Nature Biomedical Engineering, 2019, 3, 796-805.	11.6	53
62	Nanoparticle-Mediated Capture and Electrochemical Detection of Methicillin-Resistant Staphylococcus aureus. Analytical Chemistry, 2019, 91, 2847-2853.	3.2	60
63	Suppressed Ion Migration in Reduced-Dimensional Perovskites Improves Operating Stability. ACS Energy Letters, 2019, 4, 1521-1527.	8.8	130
64	Lattice anchoring stabilizes solution-processed semiconductors. Nature, 2019, 570, 96-101.	13.7	208
65	Controlled Steric Hindrance Enables Efficient Ligand Exchange for Stable, Infrared-Bandgap Quantum Dot Inks. ACS Energy Letters, 2019, 4, 1225-1230.	8.8	54
66	Anchored Ligands Facilitate Efficient B-Site Doping in Metal Halide Perovskites. Journal of the American Chemical Society, 2019, 141, 8296-8305.	6.6	53
67	Peptide-Mediated Electrochemical Steric Hindrance Assay for One-Step Detection of HIV Antibodies. Analytical Chemistry, 2019, 91, 4943-4947.	3.2	35
68	Contactless measurements of photocarrier transport properties in perovskite single crystals. Nature Communications, 2019, 10, 1591.	5.8	55
69	Efficient upgrading of CO to C3 fuel using asymmetric C-C coupling active sites. Nature Communications, 2019, 10, 5186.	5.8	127
70	Sensing: The Pervasive Science. ACS Sensors, 2019, 4, 2846-2846.	4.0	1
71	Efficient hybrid colloidal quantum dot/organic solar cells mediated by near-infrared sensitizing small molecules. Nature Energy, 2019, 4, 969-976.	19.8	120
72	Combining Desmopressin and Docetaxel for the Treatment of Castration-Resistant Prostate Cancer in an Orthotopic Model. Anticancer Research, 2019, 39, 113-118.	0.5	8

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73	Spectrally Resolved Ultrafast Exciton Transfer in Mixed Perovskite Quantum Wells. Journal of Physical Chemistry Letters, 2019, 10, 419-426.	2.1	74
74	Quantifying EpCAM heterogeneity of circulating-tumor-cells (CTCs) from small cell lung cancer (SCLC) patients.. Journal of Clinical Oncology, 2019, 37, e20091-e20091.	0.8	2
75	Ultrafast photophysics of metal halide perovskite multiple quantum wells: device implications and reconciling band alignment. , 2019, , .		0
76	DNA Polymerase Î¸ Increases Mutational Rates in Mitochondrial DNA. ACS Chemical Biology, 2018, 13, 900-908.	1.6	26
77	Mitochondrial tyrosylâ€•<scp>DNA</scp> phosphodiesterase 2 and its <scp>TDP</scp> 2 ^S short isoform. EMBO Reports, 2018, 19, .	2.0	19
78	Pore Shape Defines Paths of Metastatic Cell Migration. Nano Letters, 2018, 18, 2140-2147.	4.5	16
79	Hydronium-Induced Switching between CO₂ Electroreduction Pathways. Journal of the American Chemical Society, 2018, 140, 3833-3837.	6.6	144
80	2D matrix engineering for homogeneous quantum dot coupling in photovoltaic solids. Nature Nanotechnology, 2018, 13, 456-462.	15.6	252
81	Combinatorial Probes for Highâ€Throughput Electrochemical Analysis of Circulating Nucleic Acids in Clinical Samples. Angewandte Chemie, 2018, 130, 3773-3778.	1.6	14
82	Synthetic Control over Quantum Well Width Distribution and Carrier Migration in Low-Dimensional Perovskite Photovoltaics. Journal of the American Chemical Society, 2018, 140, 2890-2896.	6.6	288
83	Profiling circulating tumour cells and other biomarkers of invasive cancers. Nature Biomedical Engineering, 2018, 2, 72-84.	11.6	187
84	An Exciting Year Ahead for ACS Sensors. ACS Sensors, 2018, 3, 1-2.	4.0	1
85	Combinatorial Probes for Highâ€Throughput Electrochemical Analysis of Circulating Nucleic Acids in Clinical Samples. Angewandte Chemie - International Edition, 2018, 57, 3711-3716.	7.2	59
86	Catalyst electro-redeposition controls morphology and oxidation state for selective carbon dioxide reduction. Nature Catalysis, 2018, 1, 103-110.	16.1	737
87	What Should We Make with CO2 and How Can We Make It?. Joule, 2018, 2, 825-832.	11.7	975
88	Single-cell mRNA cytometry via sequence-specific nanoparticle clustering and trapping. Nature Chemistry, 2018, 10, 489-495.	6.6	68
89	Prismatic Deflection of Live Tumor Cells and Cell Clusters. ACS Nano, 2018, 12, 12692-12700.	7.3	25
90	Analyte Acumen. ACS Sensors, 2018, 3, 1892-1892.	4.0	0

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91	Multibandgap quantum dot ensembles for solar-matched infrared energy harvesting. Nature Communications, 2018, 9, 4003.	5.8	56
92	Single-Cell Tumbling Enables High-Resolution Size Profiling of Retinal Stem Cells. ACS Applied Materials & Interfaces, 2018, 10, 34811-34816.	4.0	10
93	Three-Dimensional Nanostructured Architectures Enable Efficient Neural Differentiation of Mesenchymal Stem Cells via Mechanotransduction. Nano Letters, 2018, 18, 7188-7193.	4.5	60
94	Picosecond Charge Transfer and Long Carrier Diffusion Lengths in Colloidal Quantum Dot Solids. Nano Letters, 2018, 18, 7052-7059.	4.5	51
95	Copper nanocavities confine intermediates for efficient electrosynthesis of C3 alcohol fuels from carbon monoxide. Nature Catalysis, 2018, 1, 946-951.	16.1	354
96	Programmable Metal/Semiconductor Nanostructures for mRNA-Modulated Molecular Delivery. Nano Letters, 2018, 18, 6222-6228.	4.5	36
97	Examining Structureâ€“Propertyâ€“Function Relationships in Thiophene, Selenophene, and Tellurophene Homopolymers. ACS Applied Energy Materials, 2018, 1, 5033-5042.	2.5	24
98	Compositional and orientational control in metal halide perovskites of reduced dimensionality. Nature Materials, 2018, 17, 900-907.	13.3	351
99	Activated Electronâ€Transport Layers for Infrared Quantum Dot Optoelectronics. Advanced Materials, 2018, 30, e1801720.	11.1	57
100	A Multifunctional Chemical Probe for the Measurement of Local Micropolarity and Microviscosity in Mitochondria. Angewandte Chemie - International Edition, 2018, 57, 8891-8895.	7.2	134
101	A fully-integrated and automated testing device for PCR-free viral nucleic acid detection in whole blood. Lab on A Chip, 2018, 18, 1928-1935.	3.1	25
102	A Multifunctional Chemical Probe for the Measurement of Local Micropolarity and Microviscosity in Mitochondria. Angewandte Chemie, 2018, 130, 9029-9033.	1.6	20
103	Electronâ€“phonon interaction in efficient perovskite blue emitters. Nature Materials, 2018, 17, 550-556.	13.3	472
104	First Impact Factor for ACS Sensors â€“ 5.711. ACS Sensors, 2018, 3, 1218-1219.	4.0	0
105	Curvature-Mediated Surface Accessibility Enables Ultrasensitive Electrochemical Human Methyltransferase Analysis. ACS Sensors, 2018, 3, 1765-1772.	4.0	14
106	Metalâ€“Organic Frameworks Mediate Cu Coordination for Selective CO₂ Electroreduction. Journal of the American Chemical Society, 2018, 140, 11378-11386.	6.6	326
107	2D Metal Oxyhalideâ€Derived Catalysts for Efficient CO₂ Electroreduction. Advanced Materials, 2018, 30, e1802858.	11.1	200
108	Metalâ€“Organic Framework Thin Films on High-Curvature Nanostructures Toward Tandem Electrocatalysis. ACS Applied Materials & Interfaces, 2018, 10, 31225-31232.	4.0	57

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109	Dynamic CTC phenotypes in metastatic prostate cancer models visualized using magnetic ranking cytometry. Lab on A Chip, 2018, 18, 2055-2064.	3.1	28
110	Acid-Assisted Ligand Exchange Enhances Coupling in Colloidal Quantum Dot Solids. Nano Letters, 2018, 18, 4417-4423.	4.5	57
111	High-Curvature Nanostructuring Enhances Probe Display for Biomolecular Detection. Nano Letters, 2017, 17, 1289-1295.	4.5	64
112	Broadband Epsilon-near-Zero Reflectors Enhance the Quantum Efficiency of Thin Solar Cells at Visible and Infrared Wavelengths. ACS Applied Materials & Interfaces, 2017, 9, 5556-5565.	4.0	25
113	Welcome to the First Anniversary Issue of ACS Sensors. ACS Sensors, 2017, 2, 1-2.	4.0	0
114	Steric Hindrance Assay for Secreted Factors in Stem Cell Culture. ACS Sensors, 2017, 2, 495-500.	4.0	14
115	Electrochemical DNA-Based Immunoassay That Employs Steric Hindrance To Detect Small Molecules Directly in Whole Blood. ACS Sensors, 2017, 2, 718-723.	4.0	45
116	Reflecting on How ACS Sensors Can Help Advance the Field of Sensing. ACS Sensors, 2017, 2, 455-456.	4.0	0
117	Profiling Functional and Biochemical Phenotypes of Circulating Tumor Cells Using a Twoâ€Ðimensional Sorting Device. Angewandte Chemie, 2017, 129, 169-174.	1.6	8
118	Profiling Functional and Biochemical Phenotypes of Circulating Tumor Cells Using a Twoâ€Ðimensional Sorting Device. Angewandte Chemie - International Edition, 2017, 56, 163-168.	7.2	85
119	Bioassays: Universal sensitivity booster. Nature Biomedical Engineering, 2017, 1, .	11.6	1
120	Isolation of Phenotypically Distinct Cancer Cells Using Nanoparticle-Mediated Sorting. ACS Applied Materials & Interfaces, 2017, 9, 20435-20443.	4.0	38
121	Power-free, digital and programmable dispensing of picoliter droplets using a Digit Chip. Lab on A Chip, 2017, 17, 1505-1514.	3.1	7
122	Advancing Ultrasensitive Molecular and Cellular Analysis Methods to Speed and Simplify the Diagnosis of Disease. Accounts of Chemical Research, 2017, 50, 503-507.	7.6	34
123	What Are Clinically Relevant Levels of Cellular and Biomolecular Analytes?. ACS Sensors, 2017, 2, 193-197.	4.0	119
124	Chemistry-Driven Approaches for Ultrasensitive Nucleic Acid Detection. Journal of the American Chemical Society, 2017, 139, 1020-1028.	6.6	95
125	Should There Be Minimum Information Reporting Standards for Sensors?. ACS Sensors, 2017, 2, 1377-1379.	4.0	3
126	Characterization of Trypanosoma cruzi MutY DNA glycosylase ortholog and its role in oxidative stress response. Infection, Genetics and Evolution, 2017, 55, 332-342.	1.0	6

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127	August 2017: Two Years of Submissions. ACS Sensors, 2017, 2, 1068-1069.	4.0	0
128	Enhancing the Potency of Nalidixic Acid toward a Bacterial DNA Gyrase with Conjugated Peptides. ACS Chemical Biology, 2017, 12, 2563-2569.	1.6	17
129	Biomolecular Steric Hindrance Effects Are Enhanced on Nanostructured Microelectrodes. Analytical Chemistry, 2017, 89, 9751-9757.	3.2	39
130	Dispersed Sensor Networks. ACS Sensors, 2017, 2, 1255-1255.	4.0	0
131	Biexciton Resonances Reveal Exciton Localization in Stacked Perovskite Quantum Wells. Journal of Physical Chemistry Letters, 2017, 8, 3895-3901.	2.1	41
132	Mixed-quantum-dot solar cells. Nature Communications, 2017, 8, 1325.	5.8	148
133	Amplified Micromagnetic Field Gradients Enable High-Resolution Profiling of Rare Cell Subpopulations. ACS Applied Materials & Interfaces, 2017, 9, 25683-25690.	4.0	12
134	Delivery and Release of Small-Molecule Probes in Mitochondria Using Traceless Linkers. Journal of the American Chemical Society, 2017, 139, 9455-9458.	6.6	47
135	Tracking the dynamics of circulating tumour cell phenotypes using nanoparticle-mediated magnetic ranking. Nature Nanotechnology, 2017, 12, 274-281.	15.6	198
136	New Technologies for Rapid Bacterial Identification and Antibiotic Resistance Profiling. SLAS Technology, 2017, 22, 113-121.	1.0	33
137	Microscale profiling of circulating tumor cells. , 2017, , .		0
138	Mitochondria-penetrating peptides conjugated to desferrioxamine as chelators for mitochondrial labile iron. PLoS ONE, 2017, 12, e0171729.	1.1	24
139	Multifunctional quantum dot DNA hydrogels. Nature Communications, 2017, 8, 381.	5.8	104
140	Profilierung zirkulierender Tumorzellen mit Apparaturen und Materialien der nÃchsten Generation. Angewandte Chemie, 2016, 128, 1270-1284.	1.6	12
141	Imageâ€Reversal Soft Lithography: Fabrication of Ultrasensitive Biomolecular Detectors. Advanced Healthcare Materials, 2016, 5, 893-899.	3.9	6
142	Biomolecular Sensors: Benchmarking Basics. ACS Sensors, 2016, 1, 1380-1380.	4.0	2
143	Should ACS Sensors Publish Papers on Fluorescent Sensors for Metal Ions at All?. ACS Sensors, 2016, 1, 324-325.	4.0	2
144	Enhanced electrocatalytic CO2 reduction via field-induced reagent concentration. Nature, 2016, 537, 382-386.	13.7	1,429

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145	DNA Clutch Probes for Circulating Tumor DNA Analysis. Journal of the American Chemical Society, 2016, 138, 11009-11016.	6.6	169
146	Mitochondrial Chemical Biology: New Probes Elucidate the Secrets of the Powerhouse of the Cell. Cell Chemical Biology, 2016, 23, 917-927.	2.5	72
147	Mitochondria-Targeted Doxorubicin: A New Therapeutic Strategy against Doxorubicin-Resistant Osteosarcoma. Molecular Cancer Therapeutics, 2016, 15, 2640-2652.	1.9	82
148	Peptide-Mediated Delivery of Chemical Probes and Therapeutics to Mitochondria. Accounts of Chemical Research, 2016, 49, 1893-1902.	7.6	188
149	Electrochemical Methods for the Analysis of Clinically Relevant Biomolecules. Chemical Reviews, 2016, 116, 9001-9090.	23.0	702
150	Mechanistic Control of the Growth of Three-Dimensional Gold Sensors. Journal of Physical Chemistry C, 2016, 120, 21123-21132.	1.5	46
151	High-Density Nanosharp Microstructures Enable Efficient CO₂ Electroreduction. Nano Letters, 2016, 16, 7224-7228.	4.5	158
152	Interrogating Circulating Microsomes and Exosomes Using Metal Nanoparticles. Small, 2016, 12, 727-732.	5.2	144
153	Mitochondrial DNA repair and replication proteins revealed by targeted chemical probes. Nature Chemical Biology, 2016, 12, 567-573.	3.9	80
154	Beyond the Capture of Circulating Tumor Cells: Nextâ€Generation Devices and Materials. Angewandte Chemie - International Edition, 2016, 55, 1252-1265.	7.2	144
155	Aptamer and Antisense-Mediated Two-Dimensional Isolation of Specific Cancer Cell Subpopulations. Journal of the American Chemical Society, 2016, 138, 2476-2479.	6.6	119
156	Welcome to ACS Sensors. ACS Sensors, 2016, 1, 1-2.	4.0	0
157	What Should an ACS Sensors Paper Look Like?. ACS Sensors, 2016, 1, 102-103.	4.0	0
158	Velocity valleys enable efficient capture and spatial sorting of nanoparticle-bound cancer cells. Nanoscale, 2015, 7, 6278-6285.	2.8	32
159	Sample-to-Answer Isolation and mRNA Profiling of Circulating Tumor Cells. Analytical Chemistry, 2015, 87, 6258-6264.	3.2	35
160	Ultrasensitive visual read-out of nucleic acids using electrocatalytic fluid displacement. Nature Communications, 2015, 6, 6978.	5.8	25
161	Mitochondrial Targeting of Doxorubicin Eliminates Nuclear Effects Associated with Cardiotoxicity. ACS Chemical Biology, 2015, 10, 2007-2015.	1.6	64
162	An electrochemical clamp assay for direct, rapid analysis of circulating nucleic acids in serum. Nature Chemistry, 2015, 7, 569-575.	6.6	234

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163	Using the inherent chemistry of the endothelin-1 peptide to develop a rapid assay for pre-transplant donor lung assessment. Analyst, The, 2015, 140, 8092-8096.	1.7	9
164	Fractal circuit sensors enable rapid quantification of biomarkers for donor lung assessment for transplantation. Science Advances, 2015, 1, e1500417.	4.7	29
165	A digital microfluidic device with integrated nanostructured microelectrodes for electrochemical immunoassays. Lab on A Chip, 2015, 15, 3776-3784.	3.1	58
166	Programmable definition of nanogap electronic devices using self-inhibited reagent depletion. Nature Communications, 2015, 6, 6940.	5.8	18
167	Nanoparticle-based sorting of circulating tumor cells by epithelial antigen expression during disease progression in an animal model. Nanomedicine: Nanotechnology, Biology, and Medicine, 2015, 11, 1613-1620.	1.7	23
168	In Situ Electrochemical ELISA for Specific Identification of Captured Cancer Cells. ACS Applied Materials & Interfaces, 2015, 7, 14165-14169.	4.0	58
169	Rapid electrochemical phenotypic profiling of antibiotic-resistant bacteria. Lab on A Chip, 2015, 15, 2799-2807.	3.1	90
170	Disease Detector. Scientific American, 2015, 313, 48-51.	1.0	46
171	Peptide Targeting of an Antibiotic Prodrug toward Phagosome-Entrapped Mycobacteria. ACS Infectious Diseases, 2015, 1, 586-592.	1.8	29
172	Nanoparticleâ€Mediated Binning and Profiling of Heterogeneous Circulating Tumor Cell Subpopulations. Angewandte Chemie - International Edition, 2015, 54, 139-143.	7.2	123
173	Highly Specific Electrochemical Analysis of Cancer Cells using Multiâ€Nanoparticle Labeling. Angewandte Chemie - International Edition, 2014, 53, 13145-13149.	7.2	99
174	Advancing the speed, sensitivity and accuracy of biomolecular detection using multi-length-scale engineering. Nature Nanotechnology, 2014, 9, 969-980.	15.6	349
175	Effect of Microelectrode Structure on Electrocatalysis at Nucleic Acid-Modified Sensors. Langmuir, 2014, 30, 14322-14328.	1.6	17
176	Three-dimensional, sharp-tipped electrodes concentrate applied fields to enable direct electrical release of intact biomarkers from cells. Lab on A Chip, 2014, 14, 1785.	3.1	26
177	Cellular Uptake of Substrate-Initiated Cell-Penetrating Poly(disulfide)s. Journal of the American Chemical Society, 2014, 136, 6069-6074.	6.6	219
178	Nanostructured CMOS Wireless Ultra-Wideband Label-Free PCR-Free DNA Analysis SoC. IEEE Journal of Solid-State Circuits, 2014, 49, 1223-1241.	3.5	46
179	Molecular Vehicles for Mitochondrial Chemical Biology and Drug Delivery. ACS Chemical Biology, 2014, 9, 323-333.	1.6	128
180	Ultrasensitive Electrochemical Biomolecular Detection Using Nanostructured Microelectrodes. Accounts of Chemical Research, 2014, 47, 2417-2425.	7.6	110

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181	Structural Modifications of Mitochondria-Targeted Chlorambucil Alter Cell Death Mechanism but Preserve MDR Evasion. Molecular Pharmaceutics, 2014, 11, 2675-2682.	2.3	21
182	Tuning the Intracellular Bacterial Targeting of Peptidic Vectors. Angewandte Chemie - International Edition, 2013, 52, 9660-9663.	7.2	45
183	Proximal Bacterial Lysis and Detection in Nanoliter Wells Using Electrochemistry. ACS Nano, 2013, 7, 8183-8189.	7.3	35
184	Tuning the Bacterial Detection Sensitivity of Nanostructured Microelectrodes. Analytical Chemistry, 2013, 85, 7333-7338.	3.2	56
185	Targeting Mitochondrial DNA with a Platinum-Based Anticancer Agent. Chemistry and Biology, 2013, 20, 1323-1328.	6.2	159
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