

Shana O Kelley

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.

270
papers

20,935
citations

79
h-index

137
g-index

304
ext. papers

24,312
ext. citations

12.7
avg, IF

7.25
L-index

#	Paper	IF	Citations
270	Efficient recovery of potent tumour-infiltrating lymphocytes through quantitative immunomagnetic cell sorting.. <i>Nature Biomedical Engineering</i> , 2022 ,	19	2
269	PillarX: A Microfluidic Device to Profile Circulating Tumor Cell Clusters Based on Geometry, Deformability, and Epithelial State.. <i>Small</i> , 2022 , e2106097	11	2
268	Rapid On-Cell Selection of High-Performance Human Antibodies.. <i>ACS Central Science</i> , 2022 , 8, 102-109	16.8	1
267	Phage-Based Profiling of Rare Single Cells Using Nanoparticle-Directed Capture. <i>ACS Nano</i> , 2021 ,	16.7	2
266	A microfluidic platform enables comprehensive gene expression profiling of mouse retinal stem cells. <i>Lab on A Chip</i> , 2021 , 21, 4464-4476	7.2	0
265	Cell-free DNA and circulating tumor cell kinetics in a pre-clinical head and neck Cancer model undergoing radiation therapy. <i>BMC Cancer</i> , 2021 , 21, 1075	4.8	3
264	Reagentless biomolecular analysis using a molecular pendulum. <i>Nature Chemistry</i> , 2021 , 13, 428-434	17.6	20
263	Strategies for Biomolecular Analysis and Continuous Physiological Monitoring. <i>Journal of the American Chemical Society</i> , 2021 , 143, 5281-5294	16.4	9
262	Mitochondrial ATP fuels ABC transporter-mediated drug efflux in cancer chemoresistance. <i>Nature Communications</i> , 2021 , 12, 2804	17.4	18
261	Multifunctional 3D-Printed Wound Dressings. <i>ACS Nano</i> , 2021 ,	16.7	20
260	Multication perovskite 2D/3D interfaces form via progressive dimensional reduction. <i>Nature Communications</i> , 2021 , 12, 3472	17.4	24
259	Tracking the expression of therapeutic protein targets in rare cells by antibody-mediated nanoparticle labelling and magnetic sorting. <i>Nature Biomedical Engineering</i> , 2021 , 5, 41-52	19	17
258	Detection of SARS-CoV-2 Viral Particles Using Direct, Reagent-Free Electrochemical Sensing. <i>Journal of the American Chemical Society</i> , 2021 , 143, 1722-1727	16.4	70
257	Bacterial classification and antibiotic susceptibility testing on an integrated microfluidic platform. <i>Lab on A Chip</i> , 2021 , 21, 4208-4222	7.2	5
256	Circulating tumor cell profiling for precision oncology. <i>Molecular Oncology</i> , 2021 , 15, 1622-1646	7.9	8
255	Bright and Stable Light-Emitting Diodes Based on Perovskite Quantum Dots in Perovskite Matrix. <i>Journal of the American Chemical Society</i> , 2021 , 143, 15606-15615	16.4	22
254	Ultrasensitive Detection and Depletion of Rare Leukemic B Cells in T Cell Populations via Immunomagnetic Cell Ranking. <i>Analytical Chemistry</i> , 2021 , 93, 2327-2335	7.8	3

253	AbCellera's success is unprecedented: what have we learned?. <i>Lab on A Chip</i> , 2021 , 21, 2330-2332	7.2	0
252	Nanostructured Architectures Promote the Mesenchymal-Epithelial Transition for Invasive Cells. <i>ACS Nano</i> , 2020 , 14, 5324-5336	16.7	7
251	Efficient electrically powered CO ₂ -to-ethanol via suppression of deoxygenation. <i>Nature Energy</i> , 2020 , 5, 478-486	62.3	163
250	Ultrasensitive and rapid quantification of rare tumorigenic stem cells in hPSC-derived cardiomyocyte populations. <i>Science Advances</i> , 2020 , 6, eaay7629	14.3	14
249	Stable, Bromine-Free, Tetragonal Perovskites with 1.7 eV Bandgaps via A-Site Cation Substitution 2020 , 2, 869-872		9
248	Dimensional Mixing Increases the Efficiency of 2D/3D Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 5115-5119	6.4	22
247	Regulating strain in perovskite thin films through charge-transport layers. <i>Nature Communications</i> , 2020 , 11, 1514	17.4	165
246	Combining Efficiency and Stability in Mixed Tin-Lead Perovskite Solar Cells by Capping Grains with an Ultrathin 2D Layer. <i>Advanced Materials</i> , 2020 , 32, e1907058	24	92
245	Multi-cation perovskites prevent carrier reflection from grain surfaces. <i>Nature Materials</i> , 2020 , 19, 412-418		52
244	Single-cell analysis targeting the proteome. <i>Nature Reviews Chemistry</i> , 2020 , 4, 143-158	34.6	79
243	Heterogeneous Supersaturation in Mixed Perovskites. <i>Advanced Science</i> , 2020 , 7, 1903166	13.6	8
242	Regioselective magnetization in semiconducting nanorods. <i>Nature Nanotechnology</i> , 2020 , 15, 192-197	28.7	25
241	Efficient near-infrared light-emitting diodes based on quantum dots in layered perovskite. <i>Nature Photonics</i> , 2020 , 14, 227-233	33.9	91
240	Transition Dipole Moments of = 1, 2, and 3 Perovskite Quantum Wells from the Optical Stark Effect and Many-Body Perturbation Theory. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 716-723	6.4	14
239	Ligand-Assisted Reconstruction of Colloidal Quantum Dots Decreases Trap State Density. <i>Nano Letters</i> , 2020 , 20, 3694-3702	11.5	27
238	Catalyst synthesis under CO ₂ electroreduction favours faceting and promotes renewable fuels electrosynthesis. <i>Nature Catalysis</i> , 2020 , 3, 98-106	36.5	158
237	A New Era in Liquid Biopsy: From Genotype to Phenotype. <i>Clinical Chemistry</i> , 2020 , 66, 89-96	5.5	17
236	Nanostructured Architectures for Biomolecular Detection inside and outside the Cell. <i>Advanced Functional Materials</i> , 2020 , 30, 1907701	15.6	12

235	A multiplexed, electrochemical interface for gene-circuit-based sensors. <i>Nature Chemistry</i> , 2020 , 12, 48-55	17.6	49
234	Cascade surface modification of colloidal quantum dot inks enables efficient bulk homojunction photovoltaics. <i>Nature Communications</i> , 2020 , 11, 103	17.4	110
233	Naphthalenediimide Cations Inhibit 2D Perovskite Formation and Facilitate Subpicosecond Electron Transfer. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 24379-24390	3.8	9
232	A liquid biopsy for detecting circulating mesothelial precursor cells: A new biomarker for diagnosis and prognosis in mesothelioma. <i>EBioMedicine</i> , 2020 , 61, 103031	8.8	3
231	Magnetic Ranking Cytometry: Profiling Rare Cells at the Single-Cell Level. <i>Accounts of Chemical Research</i> , 2020 , 53, 1445-1457	24.3	5
230	Mitochondrial Targeting of Probes and Therapeutics to the Powerhouse of the Cell. <i>Bioconjugate Chemistry</i> , 2020 , 31, 2650-2667	6.3	7
229	Bioinspiration in light harvesting and catalysis. <i>Nature Reviews Materials</i> , 2020 , 5, 828-846	73.3	54
228	Fluorescent Droplet Cytometry for On-Cell Phenotype Tracking. <i>Journal of the American Chemical Society</i> , 2020 , 142, 14805-14809	16.4	6
227	High-Performance Nucleic Acid Sensors for Liquid Biopsy Applications. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 2554-2564	16.4	36
226	High-Performance Nucleic Acid Sensors for Liquid Biopsy Applications. <i>Angewandte Chemie</i> , 2020 , 132, 2574-2584	3.6	4
225	High-throughput genome-wide phenotypic screening via immunomagnetic cell sorting. <i>Nature Biomedical Engineering</i> , 2019 , 3, 796-805	19	32
224	Nanoparticle-Mediated Capture and Electrochemical Detection of Methicillin-Resistant <i>Staphylococcus aureus</i> . <i>Analytical Chemistry</i> , 2019 , 91, 2847-2853	7.8	36
223	Suppressed Ion Migration in Reduced-Dimensional Perovskites Improves Operating Stability. <i>ACS Energy Letters</i> , 2019 , 4, 1521-1527	20.1	89
222	Lattice anchoring stabilizes solution-processed semiconductors. <i>Nature</i> , 2019 , 570, 96-101	50.4	149
221	Controlled Steric Hindrance Enables Efficient Ligand Exchange for Stable, Infrared-Bandgap Quantum Dot Inks. <i>ACS Energy Letters</i> , 2019 , 4, 1225-1230	20.1	30
220	Anchored Ligands Facilitate Efficient B-Site Doping in Metal Halide Perovskites. <i>Journal of the American Chemical Society</i> , 2019 , 141, 8296-8305	16.4	32
219	Peptide-Mediated Electrochemical Steric Hindrance Assay for One-Step Detection of HIV Antibodies. <i>Analytical Chemistry</i> , 2019 , 91, 4943-4947	7.8	22
218	Contactless measurements of photocarrier transport properties in perovskite single crystals. <i>Nature Communications</i> , 2019 , 10, 1591	17.4	35

217	Potential-Responsive Surfaces for Manipulation of Cell Adhesion, Release, and Differentiation. <i>Angewandte Chemie</i> , 2019 , 131, 14661-14665	3.6	2
216	Energy Level Tuning at the MAPbI ₃ Perovskite/Contact Interface Using Chemical Treatment. <i>ACS Energy Letters</i> , 2019 , 4, 2181-2184	20.1	31
215	Photochemically Cross-Linked Quantum Well Ligands for 2D/3D Perovskite Photovoltaics with Improved Photovoltage and Stability. <i>Journal of the American Chemical Society</i> , 2019 , 141, 14180-14189	16.4	67
214	Ligand-Induced Surface Charge Density Modulation Generates Local Type-II Band Alignment in Reduced-Dimensional Perovskites. <i>Journal of the American Chemical Society</i> , 2019 , 141, 13459-13467	16.4	41
213	Potential-Responsive Surfaces for Manipulation of Cell Adhesion, Release, and Differentiation. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 14519-14523	16.4	23
212	Phenotypic Profiling of Circulating Tumor Cells in Metastatic Prostate Cancer Patients Using Nanoparticle-Mediated Ranking. <i>Analytical Chemistry</i> , 2019 , 91, 9348-9355	7.8	18
211	Peptide-Functionalized Nanostructured Microarchitectures Enable Rapid Mechanotransductive Differentiation. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 41030-41037	9.5	5
210	Quantifying EpCAM heterogeneity of circulating-tumor-cells (CTCs) from small cell lung cancer (SCLC) patients.. <i>Journal of Clinical Oncology</i> , 2019 , 37, e20091-e20091	2.2	2
209	Efficient upgrading of CO to C fuel using asymmetric C-C coupling active sites. <i>Nature Communications</i> , 2019 , 10, 5186	17.4	55
208	Efficient hybrid colloidal quantum dot/organic solar cells mediated by near-infrared sensitizing small molecules. <i>Nature Energy</i> , 2019 , 4, 969-976	62.3	78
207	Combining Desmopressin and Docetaxel for the Treatment of Castration-Resistant Prostate Cancer in an Orthotopic Model. <i>Anticancer Research</i> , 2019 , 39, 113-118	2.3	4
206	Spectrally Resolved Ultrafast Exciton Transfer in Mixed Perovskite Quantum Wells. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 419-426	6.4	53
205	DNA Polymerase γ Increases Mutational Rates in Mitochondrial DNA. <i>ACS Chemical Biology</i> , 2018 , 13, 900-908	4.9	17
204	Mitochondrial tyrosyl-DNA phosphodiesterase 2 and its TDP2 short isoform. <i>EMBO Reports</i> , 2018 , 19,	6.5	12
203	Pore Shape Defines Paths of Metastatic Cell Migration. <i>Nano Letters</i> , 2018 , 18, 2140-2147	11.5	11
202	Hydronium-Induced Switching between CO Electroreduction Pathways. <i>Journal of the American Chemical Society</i> , 2018 , 140, 3833-3837	16.4	100
201	2D matrix engineering for homogeneous quantum dot coupling in photovoltaic solids. <i>Nature Nanotechnology</i> , 2018 , 13, 456-462	28.7	196
200	Combinatorial Probes for High-Throughput Electrochemical Analysis of Circulating Nucleic Acids in Clinical Samples. <i>Angewandte Chemie</i> , 2018 , 130, 3773-3778	3.6	9

199	Synthetic Control over Quantum Well Width Distribution and Carrier Migration in Low-Dimensional Perovskite Photovoltaics. <i>Journal of the American Chemical Society</i> , 2018 , 140, 2890-2896	16.4	211
198	Profiling circulating tumour cells and other biomarkers of invasive cancers. <i>Nature Biomedical Engineering</i> , 2018 , 2, 72-84	19	128
197	Combinatorial Probes for High-Throughput Electrochemical Analysis of Circulating Nucleic Acids in Clinical Samples. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 3711-3716	16.4	41
196	Catalyst electro-redeposition controls morphology and oxidation state for selective carbon dioxide reduction. <i>Nature Catalysis</i> , 2018 , 1, 103-110	36.5	479
195	What Should We Make with CO ₂ and How Can We Make It?. <i>Joule</i> , 2018 , 2, 825-832	27.8	546
194	Single-cell mRNA cytometry via sequence-specific nanoparticle clustering and trapping. <i>Nature Chemistry</i> , 2018 , 10, 489-495	17.6	52
193	Curvature-Mediated Surface Accessibility Enables Ultrasensitive Electrochemical Human Methyltransferase Analysis. <i>ACS Sensors</i> , 2018 , 3, 1765-1772	9.2	8
192	Metal-Organic Frameworks Mediate Cu Coordination for Selective CO Electroreduction. <i>Journal of the American Chemical Society</i> , 2018 , 140, 11378-11386	16.4	188
191	2D Metal Oxyhalide-Derived Catalysts for Efficient CO Electroreduction. <i>Advanced Materials</i> , 2018 , 30, e1802858	24	123
190	Metal-Organic Framework Thin Films on High-Curvature Nanostructures Toward Tandem Electrocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 31225-31232	9.5	30
189	Dynamic CTC phenotypes in metastatic prostate cancer models visualized using magnetic ranking cytometry. <i>Lab on A Chip</i> , 2018 , 18, 2055-2064	7.2	20
188	Acid-Assisted Ligand Exchange Enhances Coupling in Colloidal Quantum Dot Solids. <i>Nano Letters</i> , 2018 , 18, 4417-4423	11.5	37
187	Prismatic Deflection of Live Tumor Cells and Cell Clusters. <i>ACS Nano</i> , 2018 , 12, 12692-12700	16.7	14
186	Multibandgap quantum dot ensembles for solar-matched infrared energy harvesting. <i>Nature Communications</i> , 2018 , 9, 4003	17.4	39
185	Single-Cell Tumbling Enables High-Resolution Size Profiling of Retinal Stem Cells. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 34811-34816	9.5	7
184	Three-Dimensional Nanostructured Architectures Enable Efficient Neural Differentiation of Mesenchymal Stem Cells via Mechanotransduction. <i>Nano Letters</i> , 2018 , 18, 7188-7193	11.5	44
183	Picosecond Charge Transfer and Long Carrier Diffusion Lengths in Colloidal Quantum Dot Solids. <i>Nano Letters</i> , 2018 , 18, 7052-7059	11.5	42
182	Copper nanocavities confine intermediates for efficient electrosynthesis of C ₃ alcohol fuels from carbon monoxide. <i>Nature Catalysis</i> , 2018 , 1, 946-951	36.5	205

181	Programmable Metal/Semiconductor Nanostructures for mRNA-Modulated Molecular Delivery. <i>Nano Letters</i> , 2018 , 18, 6222-6228	11.5	26
180	Examining Structure-Property-Function Relationships in Thiophene, Selenophene, and Tellurophene Homopolymers. <i>ACS Applied Energy Materials</i> , 2018 , 1, 5033-5042	6.1	17
179	Compositional and orientational control in metal halide perovskites of reduced dimensionality. <i>Nature Materials</i> , 2018 , 17, 900-907	27	252
178	Activated Electron-Transport Layers for Infrared Quantum Dot Optoelectronics. <i>Advanced Materials</i> , 2018 , 30, e1801720	24	34
177	A Multifunctional Chemical Probe for the Measurement of Local Micropolarity and Microviscosity in Mitochondria. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 8891-8895	16.4	86
176	A fully-integrated and automated testing device for PCR-free viral nucleic acid detection in whole blood. <i>Lab on A Chip</i> , 2018 , 18, 1928-1935	7.2	15
175	A Multifunctional Chemical Probe for the Measurement of Local Micropolarity and Microviscosity in Mitochondria. <i>Angewandte Chemie</i> , 2018 , 130, 9029-9033	3.6	14
174	Electron-phonon interaction in efficient perovskite blue emitters. <i>Nature Materials</i> , 2018 , 17, 550-556	27	310
173	High-Curvature Nanostructuring Enhances Probe Display for Biomolecular Detection. <i>Nano Letters</i> , 2017 , 17, 1289-1295	11.5	49
172	Broadband Epsilon-near-Zero Reflectors Enhance the Quantum Efficiency of Thin Solar Cells at Visible and Infrared Wavelengths. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 5556-5565	9.5	18
171	Welcome to the First Anniversary Issue of ACS Sensors. <i>ACS Sensors</i> , 2017 , 2, 1-2	9.2	
170	Steric Hindrance Assay for Secreted Factors in Stem Cell Culture. <i>ACS Sensors</i> , 2017 , 2, 495-500	9.2	11
169	Electrochemical DNA-Based Immunoassay That Employs Steric Hindrance To Detect Small Molecules Directly in Whole Blood. <i>ACS Sensors</i> , 2017 , 2, 718-723	9.2	32
168	Reflecting on How ACS Sensors Can Help Advance the Field of Sensing. <i>ACS Sensors</i> , 2017 , 2, 455-456	9.2	
167	Profiling Functional and Biochemical Phenotypes of Circulating Tumor Cells Using a Two-Dimensional Sorting Device. <i>Angewandte Chemie</i> , 2017 , 129, 169-174	3.6	6
166	Profiling Functional and Biochemical Phenotypes of Circulating Tumor Cells Using a Two-Dimensional Sorting Device. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 163-168	16.4	69
165	Isolation of Phenotypically Distinct Cancer Cells Using Nanoparticle-Mediated Sorting. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 20435-20443	9.5	32
164	Power-free, digital and programmable dispensing of picoliter droplets using a Digit Chip. <i>Lab on A Chip</i> , 2017 , 17, 1505-1514	7.2	6

163	Advancing Ultrasensitive Molecular and Cellular Analysis Methods to Speed and Simplify the Diagnosis of Disease. <i>Accounts of Chemical Research</i> , 2017 , 50, 503-507	24.3	27
162	What Are Clinically Relevant Levels of Cellular and Biomolecular Analytes?. <i>ACS Sensors</i> , 2017 , 2, 193-197	9.2	90
161	Chemistry-Driven Approaches for Ultrasensitive Nucleic Acid Detection. <i>Journal of the American Chemical Society</i> , 2017 , 139, 1020-1028	16.4	78
160	Characterization of Trypanosoma cruzi MutY DNA glycosylase ortholog and its role in oxidative stress response. <i>Infection, Genetics and Evolution</i> , 2017 , 55, 332-342	4.5	4
159	Mitochondria-penetrating peptides conjugated to desferrioxamine as chelators for mitochondrial labile iron. <i>PLoS ONE</i> , 2017 , 12, e0171729	3.7	18
158	Multifunctional quantum dot DNA hydrogels. <i>Nature Communications</i> , 2017 , 8, 381	17.4	80
157	August 2017: Two Years of Submissions. <i>ACS Sensors</i> , 2017 , 2, 1068-1069	9.2	
156	Enhancing the Potency of Nalidixic Acid toward a Bacterial DNA Gyrase with Conjugated Peptides. <i>ACS Chemical Biology</i> , 2017 , 12, 2563-2569	4.9	15
155	Biomolecular Steric Hindrance Effects Are Enhanced on Nanostructured Microelectrodes. <i>Analytical Chemistry</i> , 2017 , 89, 9751-9757	7.8	28
154	Dispersed Sensor Networks. <i>ACS Sensors</i> , 2017 , 2, 1255	9.2	
153	Biexciton Resonances Reveal Exciton Localization in Stacked Perovskite Quantum Wells. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 3895-3901	6.4	30
152	Mixed-quantum-dot solar cells. <i>Nature Communications</i> , 2017 , 8, 1325	17.4	113
151	Amplified Micromagnetic Field Gradients Enable High-Resolution Profiling of Rare Cell Subpopulations. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 25683-25690	9.5	10
150	Delivery and Release of Small-Molecule Probes in Mitochondria Using Traceless Linkers. <i>Journal of the American Chemical Society</i> , 2017 , 139, 9455-9458	16.4	33
149	Tracking the dynamics of circulating tumour cell phenotypes using nanoparticle-mediated magnetic ranking. <i>Nature Nanotechnology</i> , 2017 , 12, 274-281	28.7	149
148	New Technologies for Rapid Bacterial Identification and Antibiotic Resistance Profiling. <i>SLAS Technology</i> , 2017 , 22, 113-121	3	24
147	Peptide-Mediated Delivery of Chemical Probes and Therapeutics to Mitochondria. <i>Accounts of Chemical Research</i> , 2016 , 49, 1893-902	24.3	148
146	Electrochemical Methods for the Analysis of Clinically Relevant Biomolecules. <i>Chemical Reviews</i> , 2016 , 116, 9001-90	68.1	510

145	Mechanistic Control of the Growth of Three-Dimensional Gold Sensors. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 21123-21132	3.8	33
144	High-Density Nanosharp Microstructures Enable Efficient CO Electroreduction. <i>Nano Letters</i> , 2016 , 16, 7224-7228	11.5	126
143	Interrogating Circulating Microsomes and Exosomes Using Metal Nanoparticles. <i>Small</i> , 2016 , 12, 727-32	11	107
142	Mitochondrial DNA repair and replication proteins revealed by targeted chemical probes. <i>Nature Chemical Biology</i> , 2016 , 12, 567-73	11.7	62
141	Beyond the Capture of Circulating Tumor Cells: Next-Generation Devices and Materials. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 1252-65	16.4	129
140	Aptamer and Antisense-Mediated Two-Dimensional Isolation of Specific Cancer Cell Subpopulations. <i>Journal of the American Chemical Society</i> , 2016 , 138, 2476-9	16.4	102
139	Welcome to ACS Sensors. <i>ACS Sensors</i> , 2016 , 1, 1-2	9.2	
138	Profilierung zirkulierender Tumorzellen mit Apparaturen und Materialien der nahsten Generation. <i>Angewandte Chemie</i> , 2016 , 128, 1270-1284	3.6	11
137	Image-Reversal Soft Lithography: Fabrication of Ultrasensitive Biomolecular Detectors. <i>Advanced Healthcare Materials</i> , 2016 , 5, 893-9	10.1	6
136	Should ACS Sensors Publish Papers on Fluorescent Sensors for Metal Ions at All?. <i>ACS Sensors</i> , 2016 , 1, 324-325	9.2	2
135	Enhanced electrocatalytic CO reduction via field-induced reagent concentration. <i>Nature</i> , 2016 , 537, 382-384	9.4	997
134	DNA Clutch Probes for Circulating Tumor DNA Analysis. <i>Journal of the American Chemical Society</i> , 2016 , 138, 11009-16	16.4	128
133	Mitochondrial Chemical Biology: New Probes Elucidate the Secrets of the Powerhouse of the Cell. <i>Cell Chemical Biology</i> , 2016 , 23, 917-27	8.2	51
132	Mitochondria-Targeted Doxorubicin: A New Therapeutic Strategy against Doxorubicin-Resistant Osteosarcoma. <i>Molecular Cancer Therapeutics</i> , 2016 , 15, 2640-2652	6.1	57
131	A digital microfluidic device with integrated nanostructured microelectrodes for electrochemical immunoassays. <i>Lab on A Chip</i> , 2015 , 15, 3776-84	7.2	43
130	Programmable definition of nanogap electronic devices using self-inhibited reagent depletion. <i>Nature Communications</i> , 2015 , 6, 6940	17.4	17
129	Nanoparticle-based sorting of circulating tumor cells by epithelial antigen expression during disease progression in an animal model. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015 , 11, 1613-20	6	21
128	In Situ Electrochemical ELISA for Specific Identification of Captured Cancer Cells. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 14165-9	9.5	44

127	Rapid electrochemical phenotypic profiling of antibiotic-resistant bacteria. <i>Lab on A Chip</i> , 2015 , 15, 2799-807	7.8	66
126	DISEASE DETECTOR. <i>Scientific American</i> , 2015 , 313, 48-51	0.5	39
125	Peptide Targeting of an Antibiotic Prodrug toward Phagosome-Entrapped Mycobacteria. <i>ACS Infectious Diseases</i> , 2015 , 1, 586-92	5.5	22
124	Nanoparticle-mediated binning and profiling of heterogeneous circulating tumor cell subpopulations. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 139-43	16.4	106
123	Nanoparticle-Mediated Binning and Profiling of Heterogeneous Circulating Tumor Cell Subpopulations. <i>Angewandte Chemie</i> , 2015 , 127, 141-145	3.6	21
122	Velocity valleys enable efficient capture and spatial sorting of nanoparticle-bound cancer cells. <i>Nanoscale</i> , 2015 , 7, 6278-85	7.7	29
121	Sample-to-Answer Isolation and mRNA Profiling of Circulating Tumor Cells. <i>Analytical Chemistry</i> , 2015 , 87, 6258-64	7.8	31
120	Ultrasensitive visual read-out of nucleic acids using electrocatalytic fluid displacement. <i>Nature Communications</i> , 2015 , 6, 6978	17.4	21
119	Mitochondrial Targeting of Doxorubicin Eliminates Nuclear Effects Associated with Cardiotoxicity. <i>ACS Chemical Biology</i> , 2015 , 10, 2007-15	4.9	52
118	An electrochemical clamp assay for direct, rapid analysis of circulating nucleic acids in serum. <i>Nature Chemistry</i> , 2015 , 7, 569-75	17.6	198
117	Using the inherent chemistry of the endothelin-1 peptide to develop a rapid assay for pre-transplant donor lung assessment. <i>Analyst, The</i> , 2015 , 140, 8092-6	5	7
116	Fractal circuit sensors enable rapid quantification of biomarkers for donor lung assessment for transplantation. <i>Science Advances</i> , 2015 , 1, e1500417	14.3	24
115	Effect of microelectrode structure on electrocatalysis at nucleic acid-modified sensors. <i>Langmuir</i> , 2014 , 30, 14322-8	4	14
114	Three-dimensional, sharp-tipped electrodes concentrate applied fields to enable direct electrical release of intact biomarkers from cells. <i>Lab on A Chip</i> , 2014 , 14, 1785-90	7.2	22
113	Cellular uptake of substrate-initiated cell-penetrating poly(disulfide)s. <i>Journal of the American Chemical Society</i> , 2014 , 136, 6069-74	16.4	160
112	Nanostructured CMOS Wireless Ultra-Wideband Label-Free PCR-Free DNA Analysis SoC. <i>IEEE Journal of Solid-State Circuits</i> , 2014 , 49, 1223-1241	5.5	41
111	Molecular vehicles for mitochondrial chemical biology and drug delivery. <i>ACS Chemical Biology</i> , 2014 , 9, 323-33	4.9	109
110	Ultrasensitive electrochemical biomolecular detection using nanostructured microelectrodes. <i>Accounts of Chemical Research</i> , 2014 , 47, 2417-25	24.3	97

109	Structural modifications of mitochondria-targeted chlorambucil alter cell death mechanism but preserve MDR evasion. <i>Molecular Pharmaceutics</i> , 2014 , 11, 2675-82	5.6	18
108	Highly Specific Electrochemical Analysis of Cancer Cells using Multi-Nanoparticle Labeling. <i>Angewandte Chemie</i> , 2014 , 126, 13361-13365	3.6	20
107	Highly specific electrochemical analysis of cancer cells using multi-nanoparticle labeling. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 13145-9	16.4	89
106	Advancing the speed, sensitivity and accuracy of biomolecular detection using multi-length-scale engineering. <i>Nature Nanotechnology</i> , 2014 , 9, 969-80	28.7	284
105	Tuning the intracellular bacterial targeting of peptidic vectors. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 9660-3	16.4	38
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