

Shana O Kelley

List of Publications by Citations

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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	Enhanced electrocatalytic CO reduction via field-induced reagent concentration. <i>Nature</i> , 2016 , 537, 382-386	38.6	997
269	Electron transfer between bases in double helical DNA. <i>Science</i> , 1999 , 283, 375-81	33.3	793
268	What Should We Make with CO ₂ and How Can We Make It?. <i>Joule</i> , 2018 , 2, 825-832	27.8	546
267	Electrochemical Methods for the Analysis of Clinically Relevant Biomolecules. <i>Chemical Reviews</i> , 2016 , 116, 9001-90	68.1	510
266	Catalyst electro-redeposition controls morphology and oxidation state for selective carbon dioxide reduction. <i>Nature Catalysis</i> , 2018 , 1, 103-110	36.5	479
265	Recent advances in the use of cell-penetrating peptides for medical and biological applications. <i>Advanced Drug Delivery Reviews</i> , 2009 , 61, 953-64	18.5	460
264	Single-base mismatch detection based on charge transduction through DNA. <i>Nucleic Acids Research</i> , 1999 , 27, 4830-7	20.1	413
263	Electrochemistry of methylene blue bound to a DNA-modified electrode. <i>Bioconjugate Chemistry</i> , 1997 , 8, 31-7	6.3	407
262	Long-Range Electron Transfer through DNA Films. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 941-945	16.4	368
261	Femtosecond dynamics of DNA-mediated electron transfer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999 , 96, 6014-9	11.5	339
260	Cell-penetrating peptides as delivery vehicles for biology and medicine. <i>Organic and Biomolecular Chemistry</i> , 2008 , 6, 2242-55	3.9	328
259	Programming the detection limits of biosensors through controlled nanostructuring. <i>Nature Nanotechnology</i> , 2009 , 4, 844-8	28.7	320
258	A general phase-transfer protocol for metal ions and its application in nanocrystal synthesis. <i>Nature Materials</i> , 2009 , 8, 683-9	27	318
257	Electron-phonon interaction in efficient perovskite blue emitters. <i>Nature Materials</i> , 2018 , 17, 550-556	27	310
256	Mitochondria-penetrating peptides. <i>Chemistry and Biology</i> , 2008 , 15, 375-82		302
255	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
254	Synthesis of Colloidal CuGaSe ₂ , CuInSe ₂ , and Cu(InGa)Se ₂ Nanoparticles. <i>Chemistry of Materials</i> , 2008 , 20, 6906-6910	9.6	278

253	Orienting DNA Helices on Gold Using Applied Electric Fields. <i>Langmuir</i> , 1998 , 14, 6781-6784	4	266
252	Compositional and orientational control in metal halide perovskites of reduced dimensionality. <i>Nature Materials</i> , 2018 , 17, 900-907	27	252
251	Targeting mitochondria with organelle-specific compounds: strategies and applications. <i>ChemBioChem</i> , 2009 , 10, 1939-50	3.8	239
250	Photoinduced Electron Transfer in Ethidium-Modified DNA Duplexes: Dependence on Distance and Base Stacking. <i>Journal of the American Chemical Society</i> , 1997 , 119, 9861-9870	16.4	219
249	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
248	Comparison of the quality of aqueous dispersions of single wall carbon nanotubes using surfactants and biomolecules. <i>Langmuir</i> , 2008 , 24, 5070-8	4	206
247	Copper nanocavities confine intermediates for efficient electrosynthesis of C3 alcohol fuels from carbon monoxide. <i>Nature Catalysis</i> , 2018 , 1, 946-951	36.5	205
246	DNA-based programming of quantum dot valency, self-assembly and luminescence. <i>Nature Nanotechnology</i> , 2011 , 6, 485-90	28.7	204
245	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
244	2D matrix engineering for homogeneous quantum dot coupling in photovoltaic solids. <i>Nature Nanotechnology</i> , 2018 , 13, 456-462	28.7	196
243	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
242	One-step DNA-programmed growth of luminescent and biofunctionalized nanocrystals. <i>Nature Nanotechnology</i> , 2009 , 4, 121-5	28.7	184
241	Ultrasensitive electrocatalytic DNA detection at two- and three-dimensional nanoelectrodes. <i>Journal of the American Chemical Society</i> , 2004 , 126, 12270-1	16.4	166
240	Regulating strain in perovskite thin films through charge-transport layers. <i>Nature Communications</i> , 2020 , 11, 1514	17.4	165
239	Efficient electrically powered CO ₂ -to-ethanol via suppression of deoxygenation. <i>Nature Energy</i> , 2020 , 5, 478-486	62.3	163
238	An ultrasensitive universal detector based on neutralizer displacement. <i>Nature Chemistry</i> , 2012 , 4, 642-817.6	161	
237	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
236	Catalyst synthesis under CO ₂ electroreduction favours faceting and promotes renewable fuels electrosynthesis. <i>Nature Catalysis</i> , 2020 , 3, 98-106	36.5	158

235	Lattice anchoring stabilizes solution-processed semiconductors. <i>Nature</i> , 2019 , 570, 96-101	50.4	149
234	Tracking the dynamics of circulating tumour cell phenotypes using nanoparticle-mediated magnetic ranking. <i>Nature Nanotechnology</i> , 2017 , 12, 274-281	28.7	149
233	Peptide-Mediated Delivery of Chemical Probes and Therapeutics to Mitochondria. <i>Accounts of Chemical Research</i> , 2016 , 49, 1893-902	24.3	148
232	Targeted delivery of doxorubicin to mitochondria. <i>ACS Chemical Biology</i> , 2013 , 8, 1389-95	4.9	146
231	Targeting mitochondrial DNA with a platinum-based anticancer agent. <i>Chemistry and Biology</i> , 2013 , 20, 1323-8		134
230	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
229	Profiling circulating tumour cells and other biomarkers of invasive cancers. <i>Nature Biomedical Engineering</i> , 2018 , 2, 72-84	19	128
228	Mitochondria-penetrating peptides: sequence effects and model cargo transport. <i>ChemBioChem</i> , 2009 , 10, 2081-8	3.8	128
227	DNA Clutch Probes for Circulating Tumor DNA Analysis. <i>Journal of the American Chemical Society</i> , 2016 , 138, 11009-16	16.4	128
226	Direct, electronic microRNA detection for the rapid determination of differential expression profiles. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 8461-4	16.4	127
225	High-Density Nanosharp Microstructures Enable Efficient CO Electroreduction. <i>Nano Letters</i> , 2016 , 16, 7224-7228	11.5	126
224	2D Metal Oxyhalide-Derived Catalysts for Efficient CO Electroreduction. <i>Advanced Materials</i> , 2018 , 30, e1802858	24	123
223	DNA-mediated electron transfer from a modified base to ethidium: pi-stacking as modulator of reactivity. <i>Chemistry and Biology</i> , 1998 , 5, 413-25		123
222	Mixed-quantum-dot solar cells. <i>Nature Communications</i> , 2017 , 8, 1325	17.4	113
221	Nanostructuring of sensors determines the efficiency of biomolecular capture. <i>Analytical Chemistry</i> , 2010 , 82, 5928-31	7.8	110
220	Cascade surface modification of colloidal quantum dot inks enables efficient bulk homojunction photovoltaics. <i>Nature Communications</i> , 2020 , 11, 103	17.4	110
219	Molecular vehicles for mitochondrial chemical biology and drug delivery. <i>ACS Chemical Biology</i> , 2014 , 9, 323-33	4.9	109
218	Interrogating Circulating Microsomes and Exosomes Using Metal Nanoparticles. <i>Small</i> , 2016 , 12, 727-32	11	107

217	Nanoparticle-mediated binning and profiling of heterogeneous circulating tumor cell subpopulations. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 139-43	16.4	106
216	Amplified electrocatalysis at DNA-modified nanowires. <i>Nano Letters</i> , 2005 , 5, 1051-5	11.5	106
215	Electrocatalytic detection of pathogenic DNA sequences and antibiotic resistance markers. <i>Analytical Chemistry</i> , 2003 , 75, 6327-33	7.8	106
214	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
213	Hierarchical nanotextured microelectrodes overcome the molecular transport barrier to achieve rapid, direct bacterial detection. <i>ACS Nano</i> , 2011 , 5, 3360-6	16.7	101
212	Hydronium-Induced Switching between CO Electroreduction Pathways. <i>Journal of the American Chemical Society</i> , 2018 , 140, 3833-3837	16.4	100
211	Protein detection using arrayed microsensor chips: tuning sensor footprint to achieve ultrasensitive readout of CA-125 in serum and whole blood. <i>Analytical Chemistry</i> , 2011 , 83, 1167-72	7.8	100
210	Ultrasensitive electrochemical biomolecular detection using nanostructured microelectrodes. <i>Accounts of Chemical Research</i> , 2014 , 47, 2417-25	24.3	97
209	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
208	Intercalative Stacking: A Critical Feature of DNA Charge-Transport Electrochemistry. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 11805-11812	3.4	92
207	Efficient near-infrared light-emitting diodes based on quantum dots in layered perovskite. <i>Nature Photonics</i> , 2020 , 14, 227-233	33.9	91
206	What Are Clinically Relevant Levels of Cellular and Biomolecular Analytes?. <i>ACS Sensors</i> , 2017 , 2, 193-197	7.2	90
205	Suppressed Ion Migration in Reduced-Dimensional Perovskites Improves Operating Stability. <i>ACS Energy Letters</i> , 2019 , 4, 1521-1527	20.1	89
204	Highly specific electrochemical analysis of cancer cells using multi-nanoparticle labeling. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 13145-9	16.4	89
203	Solution-based circuits enable rapid and multiplexed pathogen detection. <i>Nature Communications</i> , 2013 , 4, 2001	17.4	89
202	Potential use of cetrimonium bromide as an apoptosis-promoting anticancer agent for head and neck cancer. <i>Molecular Pharmacology</i> , 2009 , 76, 969-83	4.3	89
201	Impact of disease-related mitochondrial mutations on tRNA structure and function. <i>Trends in Biochemical Sciences</i> , 2003 , 28, 605-11	10.3	89
200	DNA-passivated CdS nanocrystals: luminescence, bioimaging, and toxicity profiles. <i>Langmuir</i> , 2007 , 23, 12783-7	4	86

199	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
198	Site-specific assembly of DNA and appended cargo on arrayed carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2004 , 126, 12750-1	16.4	85
197	Nanostructuring of patterned microelectrodes to enhance the sensitivity of electrochemical nucleic acids detection. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 8457-60	16.4	83
196	NIR-emitting colloidal quantum dots having 26% luminescence quantum yield in buffer solution. <i>Journal of the American Chemical Society</i> , 2007 , 129, 7218-9	16.4	82
195	Multifunctional quantum dot DNA hydrogels. <i>Nature Communications</i> , 2017 , 8, 381	17.4	80
194	Rerouting chlorambucil to mitochondria combats drug deactivation and resistance in cancer cells. <i>Chemistry and Biology</i> , 2011 , 18, 445-53		80
193	Nucleotide-directed growth of semiconductor nanocrystals. <i>Journal of the American Chemical Society</i> , 2006 , 128, 64-5	16.4	80
192	Single-cell analysis targeting the proteome. <i>Nature Reviews Chemistry</i> , 2020 , 4, 143-158	34.6	79
191	The antiparasitic agent ivermectin induces chloride-dependent membrane hyperpolarization and cell death in leukemia cells. <i>Blood</i> , 2010 , 116, 3593-603	2.2	79
190	Chemistry-Driven Approaches for Ultrasensitive Nucleic Acid Detection. <i>Journal of the American Chemical Society</i> , 2017 , 139, 1020-1028	16.4	78
189	RNA-templated semiconductor nanocrystals. <i>Journal of the American Chemical Society</i> , 2006 , 128, 12598-9	16.4	78
188	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
187	Direct electrocatalytic mRNA detection using PNA-nanowire sensors. <i>Analytical Chemistry</i> , 2009 , 81, 6127-8	7.8	75
186	Long-range and short-range oxidative damage to DNA: photoinduced damage to guanines in ethidium-DNA assemblies. <i>Biochemistry</i> , 1998 , 37, 15933-40	3.2	74
185	Femtosecond dynamics of the DNA intercalator ethidium and electron transfer with mononucleotides in water. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999 , 96, 1187-92	11.5	74
184	Direct profiling of cancer biomarkers in tumor tissue using a multiplexed nanostructured microelectrode integrated circuit. <i>ACS Nano</i> , 2009 , 3, 3207-13	16.7	71
183	Nucleic acid-passivated semiconductor nanocrystals: biomolecular templating of form and function. <i>Accounts of Chemical Research</i> , 2010 , 43, 173-80	24.3	70
182	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

181	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
180	Electrochemical enzyme-linked immunosorbent assay featuring proximal reagent generation: detection of human immunodeficiency virus antibodies in clinical samples. <i>Analytical Chemistry</i> , 2013 , 85, 6813-9	7.8	68
179	Biotemplated nanostructures: directed assembly of electronic and optical materials using nanoscale complementarity. <i>Journal of Materials Chemistry</i> , 2008 , 18, 954-964		68
178	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
177	Direct genetic analysis of ten cancer cells: tuning sensor structure and molecular probe design for efficient mRNA capture. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 4137-41	16.4	67
176	Rapid electrochemical phenotypic profiling of antibiotic-resistant bacteria. <i>Lab on A Chip</i> , 2015 , 15, 2799-807	16.4	66
175	An aminoacyl-tRNA synthetase with a defunct editing site. <i>Biochemistry</i> , 2005 , 44, 3010-6	3.2	66
174	Cyanine dye conjugates as probes for live cell imaging. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007 , 17, 5182-5	2.9	65
173	Mitochondrial DNA repair and replication proteins revealed by targeted chemical probes. <i>Nature Chemical Biology</i> , 2016 , 12, 567-73	11.7	62
172	Polymerase chain reaction-free, sample-to-answer bacterial detection in 30 minutes with integrated cell lysis. <i>Analytical Chemistry</i> , 2012 , 84, 21-5	7.8	59
171	Heterogeneous deposition of noble metals on semiconductor nanoparticles in organic or aqueous solvents. <i>Journal of Materials Chemistry</i> , 2006 , 16, 4025		59
170	Mitochondria-Targeted Doxorubicin: A New Therapeutic Strategy against Doxorubicin-Resistant Osteosarcoma. <i>Molecular Cancer Therapeutics</i> , 2016 , 15, 2640-2652	6.1	57
169	Efficient upgrading of CO to C fuel using asymmetric C-C coupling active sites. <i>Nature Communications</i> , 2019 , 10, 5186	17.4	55
168	Bioinspiration in light harvesting and catalysis. <i>Nature Reviews Materials</i> , 2020 , 5, 828-846	73.3	54
167	Spectrally Resolved Ultrafast Exciton Transfer in Mixed Perovskite Quantum Wells. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 419-426	6.4	53
166	Multi-cation perovskites prevent carrier reflection from grain surfaces. <i>Nature Materials</i> , 2020 , 19, 412-418	16.4	52
165	Single-cell mRNA cytometry via sequence-specific nanoparticle clustering and trapping. <i>Nature Chemistry</i> , 2018 , 10, 489-495	17.6	52
164	Mitochondrial Targeting of Doxorubicin Eliminates Nuclear Effects Associated with Cardiotoxicity. <i>ACS Chemical Biology</i> , 2015 , 10, 2007-15	4.9	52

163	Synthesis and spectroelectrochemistry of Ir(bpy)(phen)(phi)(3+), a tris(heteroleptic) metallointercalator. <i>Inorganic Chemistry</i> , 2001 , 40, 5245-50	5.1	52
162	Thiazole orange-peptide conjugates: sensitivity of DNA binding to chemical structure. <i>Organic Letters</i> , 2004 , 6, 517-9	6.2	51
161	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
160	Ultrasensitive detection of enzymatic activity with nanowire electrodes. <i>Journal of the American Chemical Society</i> , 2007 , 129, 11356-7	16.4	50
159	High-Curvature Nanostructuring Enhances Probe Display for Biomolecular Detection. <i>Nano Letters</i> , 2017 , 17, 1289-1295	11.5	49
158	A multiplexed, electrochemical interface for gene-circuit-based sensors. <i>Nature Chemistry</i> , 2020 , 12, 48-55	17.6	49
157	Tuning the bacterial detection sensitivity of nanostructured microelectrodes. <i>Analytical Chemistry</i> , 2013 , 85, 7333-8	7.8	48
156	Rapid and specific electrochemical detection of prostate cancer cells using an aperture sensor array. <i>Lab on A Chip</i> , 2013 , 13, 940-6	7.2	48
155	Nanomaterials for ultrasensitive electrochemical nucleic acids biosensing. <i>Journal of Materials Chemistry</i> , 2009 , 19, 3127		48
154	Functional defects of pathogenic human mitochondrial tRNAs related to structural fragility. <i>Nature Structural Biology</i> , 2000 , 7, 862-5		48
153	Dimerization of a pathogenic human mitochondrial tRNA. <i>Nature Structural Biology</i> , 2002 , 9, 586-90		47
152	Chip-based nanostructured sensors enable accurate identification and classification of circulating tumor cells in prostate cancer patient blood samples. <i>Analytical Chemistry</i> , 2013 , 85, 398-403	7.8	45
151	Maximizing the therapeutic window of an antimicrobial drug by imparting mitochondrial sequestration in human cells. <i>Journal of the American Chemical Society</i> , 2011 , 133, 3260-3	16.4	45
150	In Situ Electrochemical ELISA for Specific Identification of Captured Cancer Cells. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 14165-9	9.5	44
149	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
148	A digital microfluidic device with integrated nanostructured microelectrodes for electrochemical immunoassays. <i>Lab on A Chip</i> , 2015 , 15, 3776-84	7.2	43
147	Deconvolution of the cellular oxidative stress response with organelle-specific Peptide conjugates. <i>Chemistry and Biology</i> , 2007 , 14, 923-30		43
146	Tuning the activity of mitochondria-penetrating peptides for delivery or disruption. <i>ChemBioChem</i> , 2012 , 13, 476-85	3.8	42

145	Picosecond Charge Transfer and Long Carrier Diffusion Lengths in Colloidal Quantum Dot Solids. <i>Nano Letters</i> , 2018 , 18, 7052-7059	11.5	42
144	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
143	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
142	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
141	DISEASE DETECTOR. <i>Scientific American</i> , 2015 , 313, 48-51	0.5	39
140	Multibandgap quantum dot ensembles for solar-matched infrared energy harvesting. <i>Nature Communications</i> , 2018 , 9, 4003	17.4	39
139	Tuning the intracellular bacterial targeting of peptidic vectors. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 9660-3	16.4	38
138	Acid-Assisted Ligand Exchange Enhances Coupling in Colloidal Quantum Dot Solids. <i>Nano Letters</i> , 2018 , 18, 4417-4423	11.5	37
137	Development of novel peptides for mitochondrial drug delivery: amino acids featuring delocalized lipophilic cations. <i>Pharmaceutical Research</i> , 2011 , 28, 2808-19	4.5	37
136	Nanoparticle-Mediated Capture and Electrochemical Detection of Methicillin-Resistant <i>Staphylococcus aureus</i> . <i>Analytical Chemistry</i> , 2019 , 91, 2847-2853	7.8	36
135	High-Performance Nucleic Acid Sensors for Liquid Biopsy Applications. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 2554-2564	16.4	36
134	Contactless measurements of photocarrier transport properties in perovskite single crystals. <i>Nature Communications</i> , 2019 , 10, 1591	17.4	35
133	Weitreichender Elektronentransfer durch DNA-Filme. <i>Angewandte Chemie</i> , 1999 , 111, 991-996	3.6	35
132	Solvatochromic reagents for multicomponent reactions and their utility in the development of cell-permeable macrocyclic peptide vectors. <i>Chemistry - A European Journal</i> , 2011 , 17, 12257-61	4.8	34
131	Activated Electron-Transport Layers for Infrared Quantum Dot Optoelectronics. <i>Advanced Materials</i> , 2018 , 30, e1801720	24	34
130	Mechanistic Control of the Growth of Three-Dimensional Gold Sensors. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 21123-21132	3.8	33
129	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
128	Engineered apoptosis-inducing peptides with enhanced mitochondrial localization and potency. <i>Journal of Medicinal Chemistry</i> , 2009 , 52, 3293-9	8.3	33

127	Fragile T-stem in disease-associated human mitochondrial tRNA sensitizes structure to local and distant mutations. <i>Journal of Biological Chemistry</i> , 2001 , 276, 10607-11	5.4	33
126	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
125	Isolation of Phenotypically Distinct Cancer Cells Using Nanoparticle-Mediated Sorting. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 20435-20443	9.5	32
124	High-throughput genome-wide phenotypic screening via immunomagnetic cell sorting. <i>Nature Biomedical Engineering</i> , 2019 , 3, 796-805	19	32
123	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
122	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
121	Sample-to-Answer Isolation and mRNA Profiling of Circulating Tumor Cells. <i>Analytical Chemistry</i> , 2015 , 87, 6258-64	7.8	31
120	Nanostructured biomolecular detectors: pushing performance at the nanoscale. <i>Current Opinion in Chemical Biology</i> , 2012 , 16, 415-21	9.7	31
119	Nucleotide-stabilized cadmium sulfide nanoparticles. <i>Journal of Materials Chemistry</i> , 2007 , 17, 1687		31
118	Re-directing an alkylating agent to mitochondria alters drug target and cell death mechanism. <i>PLoS ONE</i> , 2013 , 8, e60253	3.7	31
117	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
116	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
115	Proximal bacterial lysis and detection in nanoliter wells using electrochemistry. <i>ACS Nano</i> , 2013 , 7, 8183-86.7	16.7	30
114	Biexciton Resonances Reveal Exciton Localization in Stacked Perovskite Quantum Wells. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 3895-3901	6.4	30
113	Photosensitized DNA cleavage promoted by amino acids. <i>Chemical Communications</i> , 2003 , 1956-7	5.8	30
112	Velocity valleys enable efficient capture and spatial sorting of nanoparticle-bound cancer cells. <i>Nanoscale</i> , 2015 , 7, 6278-85	7.7	29
111	Phototoxicity of peptidoconjugates modulated by a single amino acid. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 2542-6	16.4	29
110	Biomolecular Steric Hindrance Effects Are Enhanced on Nanostructured Microelectrodes. <i>Analytical Chemistry</i> , 2017 , 89, 9751-9757	7.8	28

109	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
108	Ligand-Assisted Reconstruction of Colloidal Quantum Dots Decreases Trap State Density. <i>Nano Letters</i> , 2020 , 20, 3694-3702	11.5	27
107	Structural probing of a pathogenic tRNA dimer. <i>Rna</i> , 2005 , 11, 254-60	5.8	26
106	Programmable Metal/Semiconductor Nanostructures for mRNA-Modulated Molecular Delivery. <i>Nano Letters</i> , 2018 , 18, 6222-6228	11.5	26
105	Regioselective magnetization in semiconducting nanorods. <i>Nature Nanotechnology</i> , 2020 , 15, 192-197	28.7	25
104	An electrochemical immunosensor based on antibody-nanowire conjugates. <i>Analyst, The</i> , 2009 , 134, 447-9	25	25
103	DNA-directed synthesis of zinc oxide nanowires on carbon nanotube tips. <i>Nanotechnology</i> , 2006 , 17, 2661-4	3.4	25
102	New Technologies for Rapid Bacterial Identification and Antibiotic Resistance Profiling. <i>SLAS Technology</i> , 2017 , 22, 113-121	3	24
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100	Multication perovskite 2D/3D interfaces form via progressive dimensional reduction. <i>Nature Communications</i> , 2021 , 12, 3472	17.4	24
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