RichardÂ N Zare

List of Publications by Year
in descending order

407 papers	23,119 citations	6592 79 h-index	14156 128 g-index
444 all docs	444 docs citations	444 times ranked	16433 citing authors

#	Article	IF	Citations
1	Big cohort metabolomic profiling of serum for oral squamous cell carcinoma screening and diagnosis. Natural Sciences, 2022, 2, .	1.0	8
2	Microdroplets can act as electrochemical cells. Journal of Chemical Physics, 2022, 156, 054705.	1.2	22
3	Thermal and Catalytic Decomposition of 2-Hydroxyethylhydrazine and 2-Hydroxyethylhydrazinium Nitrate Ionic Liquid. Journal of Physical Chemistry A, 2022, 126, 373-394.	1.1	4
4	SU086, an inhibitor of HSP90, impairs glycolysis and represents a treatment strategy for advanced prostate cancer. Cell Reports Medicine, 2022, 3, 100502.	3.3	18
5	Cell-Based Ambient Venturi Autosampling and Matrix-Assisted Laser Desorption Ionization Mass Spectrometric Imaging of Secretory Products. Analytical Chemistry, 2022, 94, 3456-3466.	3.2	1
6	Optimizing Coaxial Sonic Spray Geometry for Generating Water Microdroplets. Analytical Chemistry, 2022, 94, 3762-3766.	3.2	4
7	Quantitative detection of hydrogen peroxide in rain, air, exhaled breath, and biological fluids by NMR spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	27
8	Azapodophyllotoxin Causes Lymphoma and Kidney Cancer Regression by Disrupting Tubulin and Monoglycerols. ACS Medicinal Chemistry Letters, 2022, 13, 615-622.	1.3	0
9	Potassium Trimethylsilanolate-Promoted, Anhydrous Suzukiâ€“Miyaura Cross-Coupling Reaction Proceeds via the â€œBoronate Mechanismâ€: Evidence for the Alternative Fork in the Trail. Journal of the American Chemical Society, 2022, 144, 4345-4364.	6.6	20
10	Sprayed water microdroplets containing dissolved pyridine spontaneously generate pyridyl anions. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2200991119.	3.3	53
11	SDHB knockout and succinate accumulation are insufficient for tumorigenesis but dual SDHB/NF1 loss yields SDHx-like pheochromocytomas. Cell Reports, 2022, 38, 110453.	2.9	16
12	Cooperative catalysis by a single-atom enzyme-metal complex. Nature Communications, 2022, 13, 2189.	5.8	26
13	Capturing Reactive Carbanions by Microdroplets. Journal of the American Chemical Society, 2022, 144, 7573-7577.	6.6	13
14	Sprayed Water Microdroplets Are Able to Generate Hydrogen Peroxide Spontaneously. Journal of the American Chemical Society, 2022, 144, 7606-7609.	6.6	69
15	Insights into electrochemiluminescence dynamics by synchronizing real-time electrical, luminescence, and mass spectrometric measurements. Chemical Science, 2022, 13, 6244-6253.	3.7	9
16	The perils of machine learning in designing new chemicals and materials. Nature Machine Intelligence, 2022, 4, 314-315.	8.3	5
17	Anisotropic dynamics of resonant scattering between a pair of cold aligned diatoms. Nature Chemistry, 2022, 14, 658-663.	6.6	11
18	Investigation of Tryptic Protein Digestion in Microdroplets and in Bulk Solution. Journal of the American Society for Mass Spectrometry, 2022, 33, 1238-1249.	1.2	14

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19	Capture of Hydroxyl Radicals by Hydronium Cations in Water Microdroplets. Angewandte Chemie, 2022, 134, .	1.6	8
20	Laser Ablation Electrospray Ionization Achieves 5 Î¼m Resolution Using a Microlensed Fiber. Analytical Chemistry, 2022, 94, 10278-10282.	3.2	10
21	Coulometryâ€assisted quantitation in spray ionization mass spectrometry. Journal of Mass Spectrometry, 2021, 56, e4628.	0.7	9
22	Electrocatalytic redox neutral [3 + 2] annulation of N-cyclopropylanilines and alkenes. Chemical Science, 2021, 12, 969-975.	3.7	22
23	Location of carbonâ€“carbon double bonds in unsaturated lipids using microdroplet mass spectrometry. Analyst, The, 2021, 146, 2550-2558.	1.7	10
24	Peptide and protein assays using customizable bio-affinity arrays combined with ambient ionization mass spectrometry. Chemical Science, 2021, 12, 10810-10816.	3.7	5
25	Microdroplet Ultrafast Reactions Speed Antibody Characterization. Analytical Chemistry, 2021, 93, 3997-4005.	3.2	32
26	Shape resonance determined from angular distribution in D2 (v = 2, j = 2) + He â†' D2 (v = 2, j = 0) + He cold scattering. Journal of Chemical Physics, 2021, 154, 104309.	1.2	15
27	Accelerated Oxidation of Organic Sulfides by Microdroplet Chemistry. Journal of Organic Chemistry, 2021, 86, 5011-5015.	1.7	11
28	Adipocytes Provide Fatty Acids to Acute Lymphoblastic Leukemia Cells. Frontiers in Oncology, 2021, 11, 665763.	1.3	29
29	A Bi-Axial Quantum State That Controls Molecular Collisions Like a Double-Slit Interferometer. Frontiers in Physics, 2021, 9, .	1.0	4
30	MassExplorer: a computational tool for analyzing desorption electrospray ionization mass spectrometry data. Bioinformatics, 2021, 37, 3688-3690.	1.8	4
31	Effect of relative humidity on hydrogen peroxide production in water droplets. QRB Discovery, 2021, 2, .	0.6	12
32	Hydrogenâ€“Deuterium Exchange Desorption Electrospray Ionization Mass Spectrometry Visualizes an Acidic Tumor Microenvironment. Analytical Chemistry, 2021, 93, 10411-10417.	3.2	11
33	In situ DESI-MSI lipidomic profiles of mucosal margin of oral squamous cell carcinoma. EBioMedicine, 2021, 70, 103529.	2.7	16
34	Polymer substrate with surface solvent reservoir for polymer-spray mass spectrometric analysis of hydrophilic drugs. Talanta Open, 2021, 4, 100048.	1.7	4
35	Ultrafast enzymatic digestion of deoxyribonucleic acid in aqueous microdroplets for sequence discrimination and identification. QRB Discovery, 2021, 2, e4.	0.6	5
36	Distinguishing between Isobaric Ions Using Microdroplet Hydrogenâ€“Deuterium Exchange Mass Spectrometry. Metabolites, 2021, 11, 728.	1.3	9

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37	Effect of Relative Humidity on Hydrogen Peroxide Production in Water Droplets â€“ CORRIGENDUM. QRB Discovery, 2021, 2, .	0.6	0
38	Quantum mechanical double slit for molecular scattering. Science, 2021, 374, 960-964.	6.0	27
39	Effect of Relative Humidity in Air on the Transmission of Respiratory Viruses. Molecular Frontiers Journal, 2021, 05, 5-16.	0.9	5
40	Introducing Nafion for In Situ Desalting and Biofluid Profiling in Spray Mass Spectrometry. Frontiers in Chemistry, 2021, 9, 807244.	1.8	8
41	Nanoparticles decorated with granulocyte-colony stimulating factor for targeting myeloid cells. Nanoscale, 2020, 12, 2752-2763.	2.8	6
42	Identification of diagnostic metabolic signatures in clear cell renal cell carcinoma using mass spectrometry imaging. International Journal of Cancer, 2020, 147, 256-265.	2.3	38
43	Chemoselective Nâ€Alkylation of Indoles in Aqueous Microdroplets. Angewandte Chemie, 2020, 132, 3093-3096.	1.6	28
44	Chemoselective Nâ€Alkylation of Indoles in Aqueous Microdroplets. Angewandte Chemie - International Edition, 2020, 59, 3069-3072.	7.2	50
45	Spatial localization of charged molecules by salt ions in oil-confined water microdroplets. Science Advances, 2020, 6, .	4.7	29
46	Restricted intramolecular rotation of fluorescent molecular rotors at the periphery of aqueous microdroplets in oil. Scientific Reports, 2020, 10, 16859.	1.6	22
47	Condensing water vapor to droplets generates hydrogen peroxide. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 30934-30941.	3.3	104
48	Mechanistic Study of Isotactic Poly(propylene oxide) Synthesis using a Tethered Bimetallic Chromium Salen Catalyst. ACS Catalysis, 2020, 10, 8960-8967.	5.5	13
49	Strong Concentration Enhancement of Molecules at the Interface of Aqueous Microdroplets. Journal of Physical Chemistry B, 2020, 124, 9938-9944.	1.2	35
50	Cell-Type-Specific Metabolic Profiling Achieved by Combining Desorption Electrospray Ionization Mass Spectrometry Imaging and Immunofluorescence Staining. Analytical Chemistry, 2020, 92, 13281-13289.	3.2	31
51	Spraying Small Water Droplets Acts as a Bacteriocide. QRB Discovery, 2020, 1, .	0.6	25
52	Effects of Weak Electrolytes on Electric Double Layer Ion Distributions. Journal of Physical Chemistry Letters, 2020, 11, 8302-8306.	2.1	14
53	Strong Electric Field Observed at the Interface of Aqueous Microdroplets. Journal of Physical Chemistry Letters, 2020, 11, 7423-7428.	2.1	177
54	Simple model for the electric field and spatial distribution of ions in a microdroplet. Journal of Chemical Physics, 2020, 152, 184702.	1.2	98

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55	Reaction of chloroauric acid with histidine in microdroplets yields a catalytic Auâ€“(His)₂complex. Chemical Science, 2020, 11, 2558-2565.	3.7	25
56	Oral squamous cell carcinoma diagnosed from saliva metabolic profiling. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 16167-16173.	3.3	98
57	Strong, Nonresonant Radiation Enhances Cisâ€“Trans Photoisomerization of Stilbene in Solution. Journal of Physical Chemistry A, 2020, 124, 5999-6008.	1.1	7
58	Metabolite therapy guided by liquid biopsy proteomics delays retinal neurodegeneration. EBioMedicine, 2020, 52, 102636.	2.7	30
59	Ultrafast enzymatic digestion of proteins by microdroplet mass spectrometry. Nature Communications, 2020, 11, 1049.	5.8	74
60	Teflon Spray Ionization Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2020, 31, 234-239.	1.2	17
61	Highly parallel and efficient single cell mRNA sequencing with paired picoliter chambers. Nature Communications, 2020, 11, 2118.	5.8	50
62	Harnessing the Power of Adiabatic Curve Crossing to Populate the Highly Vibrationally Excited <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="normal">H</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:		

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73	Photon catalysis of deuterium iodide photodissociation. Physical Chemistry Chemical Physics, 2019, 21, 14195-14204.	1.3	9
74	Micrometer-Sized Water Droplets Induce Spontaneous Reduction. Journal of the American Chemical Society, 2019, 141, 10585-10589.	6.6	205
75	Stark-induced adiabatic Raman passage examined through the preparation of D2 (v = 2, j =) Tj ETQq1 1 0.784314 rgBT	1.2	12
76	Highly active enzymeâ€“metal nanohybrids synthesized in proteinâ€“polymer conjugates. Nature Catalysis, 2019, 2, 718-725.	16.1	115
77	1,4-Benzoquinone antimicrobial agents against Staphylococcus aureus and Mycobacterium tuberculosis derived from scorpion venom. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 12642-12647.	3.3	34
78	HD (v = 1, j = 2, m) orientation controls HDâ€“He rotationally inelastic scattering near 1 K. Journal of Chemical Physics, 2019, 150, 174301.	1.2	30
79	The CM carbonaceous chondrite regolith Diepenveen. Meteoritics and Planetary Science, 2019, 54, 1431-1461.	0.7	9
80	Proof of concept for identifying cystic fibrosis from perspiration samples. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 24408-24412.	3.3	14
81	Aqueous microdroplets containing only ketones or aldehydes undergo Dakin and Baeyerâ€“Villiger reactions. Chemical Science, 2019, 10, 10974-10978.	3.7	81
82	Mechanistic Study of Ruthenium-Catalyzed Câ€“H Hydroxylation Reveals an Unexpected Pathway for Catalyst Arrest. Journal of the American Chemical Society, 2019, 141, 972-980.	6.6	20
83	Nonresonant Photons Catalyze Photodissociation of Phenol. Journal of the American Chemical Society, 2019, 141, 1067-1073.	6.6	15
84	Selective Synthesis in Microdroplets of 2â€Phenylâ€2,3â€dihydrophthalazineâ€1,4â€dione from Phenyl Hydrazine with Phthalic Anhydride or Phthalic Acid. Chemistry - A European Journal, 2019, 25, 1466-1471.	1.7	25
85	Making Materials That Hate Water to Love Water: The Transformative Power of Chemistry. , 2019, , 269-281.		0
86	Nanomaterial Preparation by Extrusion through Nanoporous Membranes. Small, 2018, 14, e1703493.	5.2	69
87	Quantum interference in chemical reactions. Physics Today, 2018, 71, 70-71.	0.3	4
88	Spontaneous formation of gold nanostructures in aqueous microdroplets. Nature Communications, 2018, 9, 1562.	5.8	124
89	Mechanistic Analysis of the Câ€“H Amination Reaction of Menthol by CuBr₂ and Selectfluor. Journal of Organic Chemistry, 2018, 83, 5681-5687.	1.7	15
90	Cold quantum-controlled rotationally inelastic scattering of HD with H2 and D2 reveals collisional partner reorientation. Nature Chemistry, 2018, 10, 561-567.	6.6	74

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91	Abiotic synthesis of purine and pyrimidine ribonucleosides in aqueous microdroplets. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 36-40.	3.3	98
92	Microdroplets Accelerate Ring Opening of Epoxides. Journal of the American Society for Mass Spectrometry, 2018, 29, 1036-1043.	1.2	38
93	Site-selective bromination of sp³ Câ€“H bonds. Chemical Science, 2018, 9, 100-104.	3.7	61
94	Conductive Polymer Spray Ionization Mass Spectrometry for Biofluid Analysis. Analytical Chemistry, 2018, 90, 12878-12885.	3.2	39
95	Combining Desorption Electrospray Ionization Mass Spectrometry Imaging and Machine Learning for Molecular Recognition of Myocardial Infarction. Analytical Chemistry, 2018, 90, 12198-12206.	3.2	22
96	Fluorescence Polarization Anisotropy in Microdroplets. Journal of Physical Chemistry Letters, 2018, 9, 2928-2932.	2.1	72
97	Electrically controlled drug release using pH-sensitive polymer films. Nanoscale, 2018, 10, 10087-10093.	2.8	42
98	Preparative microdroplet synthesis of carboxylic acids from aerobic oxidation of aldehydes. Chemical Science, 2018, 9, 5207-5211.	3.7	55
99	Stark-Induced Adiabatic Passage Processes to Selectively Prepare Vibrationally Excited Single and Superposition of Quantum States. , 2018, , 1-46.		9
100	Supersonic beams of mixed gases: A method for studying cold collisions. Chemical Physics, 2018, 514, 150-153.	0.9	15
101	Enhancement of reaction rate in small-sized droplets: A combined analytical and simulation study. Journal of Chemical Physics, 2018, 148, 244704.	1.2	47
102	Real-time mass-spectrometric screening of droplet-scale electrochemical reactions. Analyst, The, 2018, 143, 4247-4250.	1.7	9
103	An Alkaloid from Scorpion Venom: Chemical Structure and Synthesis. Journal of Natural Products, 2018, 81, 1899-1904.	1.5	17
104	Ultra-low voltage triggered release of an anti-cancer drug from polypyrrole nanoparticles. Nanoscale, 2018, 10, 9773-9779.	2.8	23
105	In Situ Mass Spectrometric Screening and Studying of the Fleeting Chain Propagation of Aniline. Analytical Chemistry, 2018, 90, 7154-7157.	3.2	25
106	Distinguishing malignant from benign microscopic skin lesions using desorption electrospray ionization mass spectrometry imaging. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 6347-6352.	3.3	71
107	Twoâ€Phase Reactions in Microdroplets without the Use of Phaseâ€Transfer Catalysts. Angewandte Chemie - International Edition, 2017, 56, 3562-3565.	7.2	82
108	Twoâ€Phase Reactions in Microdroplets without the Use of Phaseâ€Transfer Catalysts. Angewandte Chemie, 2017, 129, 3616-3619.	1.6	24

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109	Two New Devices for Identifying Electrochemical Reaction Intermediates with Desorption Electrospray Ionization Mass Spectrometry. Analytical Chemistry, 2017, 89, 3191-3198.	3.2	21
110	Microdroplet fusion mass spectrometry: accelerated kinetics of acid-induced chlorophyll demetallation. Quarterly Reviews of Biophysics, 2017, 50, e2.	2.4	36
111	Potassium tert-Butoxide-Catalyzed Dehydrogenative Câ€“H Silylation of Heteroaromatics: A Combined Experimental and Computational Mechanistic Study. Journal of the American Chemical Society, 2017, 139, 6867-6879.	6.6	160
112	Oncogene KRAS activates fatty acid synthase, resulting in specific ERK and lipid signatures associated with lung adenocarcinoma. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4300-4305.	3.3	110
113	Rapid Hydrogenâ€“Deuterium Exchange in Liquid Droplets. Journal of the American Chemical Society, 2017, 139, 6851-6854.	6.6	70
114	Ionic and Neutral Mechanisms for Câ€“H Bond Silylation of Aromatic Heterocycles Catalyzed by Potassium tert-Butoxide. Journal of the American Chemical Society, 2017, 139, 6880-6887.	6.6	111
115	Electrically controlled release of insulin using polypyrrole nanoparticles. Nanoscale, 2017, 9, 143-149.	2.8	67
116	Can all bulk-phase reactions be accelerated in microdroplets?. Analyst, The, 2017, 142, 1399-1402.	1.7	133
117	Diagnosis of prostate cancer by desorption electrospray ionization mass spectrometric imaging of small metabolites and lipids. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3334-3339.	3.3	174
118	Personal Information from Latent Fingerprints Using Desorption Electrospray Ionization Mass Spectrometry and Machine Learning. Analytical Chemistry, 2017, 89, 1369-1372.	3.2	75
119	â€œOnâ€Dropletâ€•Chemistry: The Cycloaddition of Diethyl Azodicarboxylate and Quadricyclane. Angewandte Chemie, 2017, 129, 15279-15283.	1.6	12
120	Formation of Polymeric Nanocubes by Selfâ€Assembly and Crystallization of Dithiolaneâ€Containing Triblock Copolymers. Angewandte Chemie - International Edition, 2017, 56, 16357-16362.	7.2	29
121	â€œOnâ€Dropletâ€•Chemistry: The Cycloaddition of Diethyl Azodicarboxylate and Quadricyclane. Angewandte Chemie - International Edition, 2017, 56, 15083-15087.	7.2	58
122	Pomeranzâ€“Fritsch Synthesis of Isoquinoline: Gas-Phase Collisional Activation Opens Additional Reaction Pathways. Journal of the American Chemical Society, 2017, 139, 14352-14355.	6.6	15
123	Upgrading Asphaltenes by Oil Droplets Striking a Charged TiO2-Immobilized Paper Surface. Energy & Fuels, 2017, 31, 12685-12690.	2.5	4
124	Quantum control of molecular collisions at 1 kelvin. Science, 2017, 358, 356-359.	6.0	121
125	On-demand electrically controlled drug release from resorbable nanocomposite films. Nanoscale, 2017, 9, 16429-16436.	2.8	23
126	Abiotic production of sugar phosphates and uridine ribonucleoside in aqueous microdroplets. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 12396-12400.	3.3	166

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127	Mechanism of Catalytic Oxidation of Styrenes with Hydrogen Peroxide in the Presence of Cationic Palladium(II) Complexes. Journal of the American Chemical Society, 2017, 139, 12495-12503.	6.6	49
128	Making Materials That Hate Water to Love Water: The Transformative Power of Chemistry. Molecular Frontiers Journal, 2017, 01, 10-15.	0.9	1
129	Polymerâ€spray mass spectrometric detection and quantitation of hydrophilic compounds and some narcotics. Rapid Communications in Mass Spectrometry, 2017, 31, 1651-1658.	0.7	24
130	Mechanistic analysis of a copper-catalyzed Câ€“H oxidative cyclization of carboxylic acids. Chemical Science, 2017, 8, 7003-7008.	3.7	34
131	Nanoaggregates of Diverse Asphaltenes by Mass Spectrometry and Molecular Dynamics. Energy & Fuels, 2017, 31, 9140-9151.	2.5	63
132	Optimizing Chemical Reactions with Deep Reinforcement Learning. ACS Central Science, 2017, 3, 1337-1344.	5.3	291
133	Formation of Polymeric Nanocubes by Selfâ€Assembly and Crystallization of Dithiolaneâ€Containing Triblock Copolymers. Angewandte Chemie, 2017, 129, 16575-16580.	1.6	7
134	Stark-induced adiabatic Raman ladder for preparing highly vibrationally excited quantum states of molecular hydrogen. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 144005.	0.6	11
135	Scaffold-mediated BMP-2 minicircle DNA delivery accelerated bone repair in a mouse critical-size calvarial defect model. Journal of Biomedical Materials Research - Part A, 2016, 104, 2099-2107.	2.1	23
136	Miniaturized Linear Wire Ion Trap Mass Analyzer. Analytical Chemistry, 2016, 88, 7800-7806.	3.2	29
137	Angular and internal state distributions of H2+ generated by (2 + 1) resonance enhanced multiphoton ionization of H2 using time-of-flight mass spectrometry. Journal of Chemical Physics, 2016, 144, 214201.	1.2	11
138	Multiple scattering mechanisms causing interference effects in the differential cross sections of H + D2 â†' HD(vâ€² = 4, â€‰jâ€²) + D at 3.26 eV collision energy. Journal of Chemical Physics, 2016, 145, 024308.	3.2	14
139	Wissenschaftliches Publizieren â€“ neue Ideen fÃ¼r ein faires System. Angewandte Chemie, 2016, 128, 2652-2653.	1.6	0
140	Better Practices in Scientific Publishing. Angewandte Chemie - International Edition, 2016, 55, 2606-2607.	7.2	1
141	Nanotip Ambient Ionization Mass Spectrometry. Analytical Chemistry, 2016, 88, 5542-5548.	3.2	23
142	Electroresponsive nanoparticles for drug delivery on demand. Nanoscale, 2016, 8, 9310-9317.	2.8	51
143	High-Resolution Live-Cell Imaging and Analysis by Laser Desorption/Ionization Droplet Delivery Mass Spectrometry. Analytical Chemistry, 2016, 88, 5453-5461.	3.2	70
144	Direct Copper(III) Formation from O₂ and Copper(I) with Histamine Ligation. Journal of the American Chemical Society, 2016, 138, 9986-9995.	6.6	25

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145	A Study of Heterogeneous Catalysis by Nanoparticleâ€Embedded Paperâ€Spray Ionization Mass Spectrometry. Angewandte Chemie, 2016, 128, 12999-13003.	1.6	5
146	A Study of Heterogeneous Catalysis by Nanoparticleâ€Embedded Paperâ€Spray Ionization Mass Spectrometry. Angewandte Chemie - International Edition, 2016, 55, 12807-12811.	7.2	47
147	Catalytic Carbonylative Spirolactonization of Hydroxycyclopropanols. Journal of the American Chemical Society, 2016, 138, 10693-10699.	6.6	97
148	Impact of Laboratory-Induced Thermal Maturity on Asphaltene Molecular Structure. Energy & Fuels, 2016, 30, 7025-7036.	2.5	25
149	An ultrasonically powered implantable device for targeted drug delivery. , 2016, 2016, 541-544.		12
150	Preparation of a selected high vibrational energy level of isolated molecules. Journal of Chemical Physics, 2016, 145, 154203.	1.2	22
151	Fall and rise of a D2O ice cube in liquid H2O. Resonance, 2016, 21, 453-456.	0.2	0
152	Monitoring Enzymatic Reactions in Real Time Using Venturi Easy Ambient Sonic-Spray Ionization Mass Spectrometry. Analytical Chemistry, 2016, 88, 6195-6198.	3.2	17
153	Performance of chemically modified plastic blood collection tubes. Clinical Biochemistry, 2016, 49, 90-99.	0.8	3
154	Going beyond electrospray: mass spectrometric studies of chemical reactions in and on liquids. Chemical Science, 2016, 7, 39-55.	3.7	109
155	Observation of electrochemically generated nitrenium ions by desorption electrospray ionization mass spectrometry. Chemical Science, 2016, 7, 329-332.	3.7	47
156	Pancreatic Cancer Surgical Resection Margins: Molecular Assessment by Mass Spectrometry Imaging. PLoS Medicine, 2016, 13, e1002108.	3.9	79
157	Acceleration of reaction in charged microdroplets. Quarterly Reviews of Biophysics, 2015, 48, 437-444.	2.4	204
158	Detection of the Shortâ€Lived Radical Cation Intermediate in the Electrooxidation of N,Nâ€Dimethylaniline by Mass Spectrometry. Angewandte Chemie - International Edition, 2015, 54, 11183-11185.	7.2	83
159	Carl Djerassi (1923-2015). Angewandte Chemie - International Edition, 2015, 54, 5001-5002.	7.2	2
160	Syntheses of Isoquinoline and Substituted Quinolines in Charged Microdroplets. Angewandte Chemie - International Edition, 2015, 54, 14795-14799.	7.2	158
161	Mechanistic analysis of an asymmetric palladium-catalyzed conjugate addition of arylboronic acids to Î²-substituted cyclic enones. Chemical Science, 2015, 6, 1917-1922.	3.7	28
162	Protein Analysis by Ambient Ionization Mass Spectrometry Using Trypsin-Immobilized Organosiloxane Polymer Surfaces. Analytical Chemistry, 2015, 87, 12324-12330.	3.2	12

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163	Challenges of metagenomics and single-cell genomics approaches for exploring cyanobacterial diversity. Photosynthesis Research, 2015, 126, 135-146.	1.6	10
164	Laser-Based Mass Spectrometric Assessment of Asphaltene Molecular Weight, Molecular Architecture, and Nanoaggregate Number. Energy & Fuels, 2015, 29, 2833-2842.	2.5	102
165	Quantum interference between Hâ€‰+â€‰D2 quasiclassical reaction mechanisms. Nature Chemistry, 2015, 7, 661-667.	6.6	34
166	Identification of Fleeting Electrochemical Reaction Intermediates Using Desorption Electrospray Ionization Mass Spectrometry. Journal of the American Chemical Society, 2015, 137, 7274-7277.	6.6	103
167	Droplet Spray Ionization from a Glass Microscope Slide: Real-Time Monitoring of Ethylene Polymerization. Analytical Chemistry, 2015, 87, 8057-8062.	3.2	56
168	Differential Cross Sections for the H + D₂ â†' HD(vâ€² = 3, jâ€² = 4â€“10) + D Reaction above the Conical Intersection. Journal of Physical Chemistry A, 2015, 119, 12036-12042.	1.1	18
169	The Role of Abcb5 Alleles in Susceptibility to Haloperidol-Induced Toxicity in Mice and Humans. PLoS Medicine, 2015, 12, e1001782.	3.9	23
170	MYC oncogene overexpression drives renal cell carcinoma in a mouse model through glutamine metabolism. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 6539-6544.	3.3	211
171	Microdroplet fusion mass spectrometry for fast reaction kinetics. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 3898-3903.	3.3	197
172	Mechanistic Insights into Two-Phase Radical Câ€“H Arylations. ACS Central Science, 2015, 1, 456-462.	5.3	29
173	Imaging of Proteins in Tissue Samples Using Nanospray Desorption Electrospray Ionization Mass Spectrometry. Analytical Chemistry, 2015, 87, 11171-11175.	3.2	101
174	Celecoxib Nanoparticles for Therapeutic Angiogenesis. ACS Nano, 2015, 9, 9416-9426.	7.3	44
175	Catalytic Role of Multinuclear Palladiumâ€“Oxygen Intermediates in Aerobic Oxidation Followed by Hydrogen Peroxide Disproportionation. Journal of the American Chemical Society, 2015, 137, 13632-13646.	6.6	49
176	Is the simplest chemical reaction really so simple?. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15-20.	3.3	82
177	LprG-Mediated Surface Expression of Lipoarabinomannan Is Essential for Virulence of Mycobacterium tuberculosis. PLoS Pathogens, 2014, 10, e1004376.	2.1	82
178	Trinuclear Pd₃O₂ Intermediate in Aerobic Oxidation Catalysis. Angewandte Chemie, 2014, 126, 5754-5758.	1.6	9
179	Diamondosomes: Submicron Colloidosomes with Nanodiamond Shells. Particle and Particle Systems Characterization, 2014, 31, 1067-1071.	1.2	16
180	Molecular assessment of surgical-resection margins of gastric cancer by mass-spectrometric imaging. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2436-2441.	3.3	185

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