

# Richard N Zare

## 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.

395  
papers

18,264  
citations

72  
h-index

113  
g-index

444  
ext. papers

20,462  
ext. citations

7.6  
avg, IF

7.07  
L-index

#	Paper	IF	Citations
395	SU086, an inhibitor of HSP90, impairs glycolysis and represents a treatment strategy for advanced prostate cancer.. <i>Cell Reports Medicine</i> , <b>2022</b> , 3, 100502	18	3
394	Microdroplets can act as electrochemical cells.. <i>Journal of Chemical Physics</i> , <b>2022</b> , 156, 054705	3.9	4
393	Quantitative detection of hydrogen peroxide in rain, air, exhaled breath, and biological fluids by NMR spectroscopy.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119,	11.5	2
392	Azapodophyllotoxin Causes Lymphoma and Kidney Cancer Regression by Disrupting Tubulin and Monoglycerols.. <i>ACS Medicinal Chemistry Letters</i> , <b>2022</b> , 13, 615-622	4.3	
391	Sprayed water microdroplets containing dissolved pyridine spontaneously generate pyridyl anions.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119, e2200991119 <sup>11.5</sup>	11.5	13
390	SDHB knockout and succinate accumulation are insufficient for tumorigenesis but dual SDHB/NF1 loss yields SDHx-like pheochromocytomas.. <i>Cell Reports</i> , <b>2022</b> , 38, 110453	10.6	0
389	Cooperative catalysis by a single-atom enzyme-metal complex.. <i>Nature Communications</i> , <b>2022</b> , 13, 2189	17.4	2
388	The perils of machine learning in designing new chemicals and materials. <i>Nature Machine Intelligence</i> , <b>2022</b> , 4, 314-315	22.5	0
387	Introducing Nafion for Desalting and Biofluid Profiling in Spray Mass Spectrometry.. <i>Frontiers in Chemistry</i> , <b>2021</b> , 9, 807244	5	1
386	Quantum mechanical double slit for molecular scattering. <i>Science</i> , <b>2021</b> , 374, 960-964	33.3	11
385	Shape resonance determined from angular distribution in D ( $v = 2, j = 2$ ) + He -jD ( $v = 2, j = 0$ ) + He cold scattering. <i>Journal of Chemical Physics</i> , <b>2021</b> , 154, 104309	3.9	10
384	Accelerated Oxidation of Organic Sulfides by Microdroplet Chemistry. <i>Journal of Organic Chemistry</i> , <b>2021</b> , 86, 5011-5015	4.2	6
383	Adipocytes Provide Fatty Acids to Acute Lymphoblastic Leukemia Cells. <i>Frontiers in Oncology</i> , <b>2021</b> , 11, 665763	5.3	7
382	A Bi-Axial Quantum State That Controls Molecular Collisions Like a Double-Slit Interferometer. <i>Frontiers in Physics</i> , <b>2021</b> , 9,	3.9	3
381	Location of carbon-carbon double bonds in unsaturated lipids using microdroplet mass spectrometry. <i>Analyst, The</i> , <b>2021</b> , 146, 2550-2558	5	3
380	Peptide and protein assays using customizable bio-affinity arrays combined with ambient ionization mass spectrometry. <i>Chemical Science</i> , <b>2021</b> , 12, 10810-10816	9.4	2
379	Microdroplet Ultrafast Reactions Speed Antibody Characterization. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 3997-4005	40.5	9

378	Hydrogen-Deuterium Exchange Desorption Electrospray Ionization Mass Spectrometry Visualizes an Acidic Tumor Microenvironment. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 10411-10417	7.8	4
377	In situ DESI-MSI lipidomic profiles of mucosal margin of oral squamous cell carcinoma. <i>EBioMedicine</i> , <b>2021</b> , 70, 103529	8.8	1
376	Polymer substrate with surface solvent reservoir for polymer-spray mass spectrometric analysis of hydrophilic drugs. <i>Talanta Open</i> , <b>2021</b> , 4, 100048	5.6	1
375	Simple model for the electric field and spatial distribution of ions in a microdroplet. <i>Journal of Chemical Physics</i> , <b>2020</b> , 152, 184702	3.9	31
374	Reaction of chloroauric acid with histidine in microdroplets yields a catalytic Au-(His) complex. <i>Chemical Science</i> , <b>2020</b> , 11, 2558-2565	9.4	13
373	Oral squamous cell carcinoma diagnosed from saliva metabolic profiling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 16167-16173	11.5	39
372	Strong, Nonresonant Radiation Enhances - Photoisomerization of Stilbene in Solution. <i>Journal of Physical Chemistry A</i> , <b>2020</b> , 124, 5999-6008	2.8	3
371	Metabolite therapy guided by liquid biopsy proteomics delays retinal neurodegeneration. <i>EBioMedicine</i> , <b>2020</b> , 52, 102636	8.8	15
370	Ultrafast enzymatic digestion of proteins by microdroplet mass spectrometry. <i>Nature Communications</i> , <b>2020</b> , 11, 1049	17.4	31
369	Teflon Spray Ionization Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2020</b> , 31, 234-239	3.5	6
368	Highly parallel and efficient single cell mRNA sequencing with paired picoliter chambers. <i>Nature Communications</i> , <b>2020</b> , 11, 2118	17.4	19
367	Harnessing the Power of Adiabatic Curve Crossing to Populate the Highly Vibrationally Excited $H_{\{2\}}$ ( $v=7, j=0$ ) Level. <i>Physical Review Letters</i> , <b>2020</b> , 124, 163202	7.4	9
366	CONCENTRATION GRADIENTS INSIDE MICRODROPLETS <b>2020</b> , 2020, 212-213		
365	Nanoparticles decorated with granulocyte-colony stimulating factor for targeting myeloid cells. <i>Nanoscale</i> , <b>2020</b> , 12, 2752-2763	7.7	4
364	Identification of diagnostic metabolic signatures in clear cell renal cell carcinoma using mass spectrometry imaging. <i>International Journal of Cancer</i> , <b>2020</b> , 147, 256-265	7.5	14
363	Chemoselective N-Alkylation of Indoles in Aqueous Microdroplets. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 3093-3096	3.0	3
362	Chemoselective N-Alkylation of Indoles in Aqueous Microdroplets. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 3069-3072	16.4	23
361	Spatial localization of charged molecules by salt ions in oil-confined water microdroplets. <i>Science Advances</i> , <b>2020</b> , 6,	14.3	6

360	Restricted intramolecular rotation of fluorescent molecular rotors at the periphery of aqueous microdroplets in oil. <i>Scientific Reports</i> , <b>2020</b> , 10, 16859	4.9	5
359	Condensing water vapor to droplets generates hydrogen peroxide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 30934-30941	11.5	28
358	Mechanistic Study of Isotactic Poly(propylene oxide) Synthesis using a Tethered Bimetallic Chromium Salen Catalyst. <i>ACS Catalysis</i> , <b>2020</b> , 10, 8960-8967	13.1	5
357	Strong Concentration Enhancement of Molecules at the Interface of Aqueous Microdroplets. <i>Journal of Physical Chemistry B</i> , <b>2020</b> , 124, 9938-9944	3.4	16
356	Cell-Type-Specific Metabolic Profiling Achieved by Combining Desorption Electrospray Ionization Mass Spectrometry Imaging and Immunofluorescence Staining. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 13281-13289	7.8	11
355	Spraying Small Water Droplets Acts as a Bactericide. <i>QRB Discovery</i> , <b>2020</b> , 1,	2.7	9
354	Effects of Weak Electrolytes on Electric Double Layer Ion Distributions. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 8302-8306	6.4	5
353	Strong Electric Field Observed at the Interface of Aqueous Microdroplets. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 7423-7428	6.4	58
352	Spraying Model PAHs on a Charged TiO <sub>2</sub> Surface for High-Efficiency Degradation. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 4289-4295	4.1	1
351	Coulometry-assisted quantitation in spray ionization mass spectrometry. <i>Journal of Mass Spectrometry</i> , <b>2020</b> , 56, e4628	2.2	2
350	Electrocatalytic redox neutral [3 + 2] annulation of -cyclopropylanilines and alkenes. <i>Chemical Science</i> , <b>2020</b> , 12, 969-975	9.4	9
349	Spontaneous generation of hydrogen peroxide from aqueous microdroplets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 19294-19298	11.5	119
348	Influence of Inlet Capillary Temperature on the Microdroplet Chemistry Studied by Mass Spectrometry. <i>Journal of Physical Chemistry A</i> , <b>2019</b> , 123, 7704-7709	2.8	11
347	Scale-up of microdroplet reactions by heated ultrasonic nebulization. <i>Chemical Science</i> , <b>2019</b> , 10, 9367-9373	7.7	21
346	Photon catalysis of deuterium iodide photodissociation. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 14195-14204	3.6	8
345	Micrometer-Sized Water Droplets Induce Spontaneous Reduction. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 10585-10589	16.4	91
344	Stark-induced adiabatic Raman passage examined through the preparation of D ( $v = 2, j = 0$ ) and D ( $v = 2, j = 2, m = 0$ ). <i>Journal of Chemical Physics</i> , <b>2019</b> , 150, 234201	3.9	9
343	Highly active enzyme-metal nanohybrids synthesized in protein-polymer conjugates. <i>Nature Catalysis</i> , <b>2019</b> , 2, 718-725	36.5	60

342	1,4-Benzoquinone antimicrobial agents against and derived from scorpion venom. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 12642-12647	11.5	17
341	HD ( $v = 1, j = 2, m$ ) orientation controls HD-He rotationally inelastic scattering near 1 K. <i>Journal of Chemical Physics</i> , <b>2019</b> , 150, 174301	3.9	21
340	The CM carbonaceous chondrite regolith Diepenveen. <i>Meteoritics and Planetary Science</i> , <b>2019</b> , 54, 1431-1461	14.6	5
339	Early detection of unilateral ureteral obstruction by desorption electrospray ionization mass spectrometry. <i>Scientific Reports</i> , <b>2019</b> , 9, 11007	4.9	7
338	The MYC Oncogene Cooperates with Sterol-Regulated Element-Binding Protein to Regulate Lipogenesis Essential for Neoplastic Growth. <i>Cell Metabolism</i> , <b>2019</b> , 30, 556-572.e5	24.6	52
337	Optimization of Molecules via Deep Reinforcement Learning. <i>Scientific Reports</i> , <b>2019</b> , 9, 10752	4.9	106
336	Absolute Quantitation of Oxidizable Peptides by Coulometric Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2019</b> , 30, 2398-2407	3.5	5
335	Packaging and delivering enzymes by amorphous metal-organic frameworks. <i>Nature Communications</i> , <b>2019</b> , 10, 5165	17.4	119
334	Making Materials That Hate Water to Love Water: The Transformative Power of Chemistry <b>2019</b> , 269-281		
333	Proof of concept for identifying cystic fibrosis from perspiration samples. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 24408-24412	11.5	9
332	Aqueous microdroplets containing only ketones or aldehydes undergo Dakin and Baeyer-Villiger reactions. <i>Chemical Science</i> , <b>2019</b> , 10, 10974-10978	9.4	33
331	Mechanistic Study of Ruthenium-Catalyzed C-H Hydroxylation Reveals an Unexpected Pathway for Catalyst Arrest. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 972-980	16.4	13
330	Nonresonant Photons Catalyze Photodissociation of Phenol. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 1067-1073	16.4	13
329	Selective Synthesis in Microdroplets of 2-Phenyl-2,3-dihydrophthalazine-1,4-dione from Phenyl Hydrazine with Phthalic Anhydride or Phthalic Acid. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 1466-1471	4.8	15
328	Nanomaterial Preparation by Extrusion through Nanoporous Membranes. <i>Small</i> , <b>2018</b> , 14, e1703493	11	39
327	Quantum interference in chemical reactions. <i>Physics Today</i> , <b>2018</b> , 71, 70-71	0.9	3
326	Spontaneous formation of gold nanostructures in aqueous microdroplets. <i>Nature Communications</i> , <b>2018</b> , 9, 1562	17.4	72
325	Mechanistic Analysis of the C-H Amination Reaction of Menthol by CuBr and Selectfluor. <i>Journal of Organic Chemistry</i> , <b>2018</b> , 83, 5681-5687	4.2	12

3 <sup>24</sup>	Cold quantum-controlled rotationally inelastic scattering of HD with H and D reveals collisional partner reorientation. <i>Nature Chemistry</i> , <b>2018</b> , 10, 561-567	17.6	58
3 <sup>23</sup>	Abiotic synthesis of purine and pyrimidine ribonucleosides in aqueous microdroplets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 36-40	11.5	59
3 <sup>22</sup>	Microdroplets Accelerate Ring Opening of Epoxides. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2018</b> , 29, 1036-1043	3.5	24
3 <sup>21</sup>	Real-time mass-spectrometric screening of droplet-scale electrochemical reactions. <i>Analyst, The</i> , <b>2018</b> , 143, 4247-4250	5	6
3 <sup>20</sup>	An Alkaloid from Scorpion Venom: Chemical Structure and Synthesis. <i>Journal of Natural Products</i> , <b>2018</b> , 81, 1899-1904	4.9	10
3 <sup>19</sup>	Ultra-low voltage triggered release of an anti-cancer drug from polypyrrole nanoparticles. <i>Nanoscale</i> , <b>2018</b> , 10, 9773-9779	7.7	16
3 <sup>18</sup>	In Situ Mass Spectrometric Screening and Studying of the Fleeting Chain Propagation of Aniline. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 7154-7157	7.8	17
3 <sup>17</sup>	Distinguishing malignant from benign microscopic skin lesions using desorption electrospray ionization mass spectrometry imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 6347-6352	11.5	45
3 <sup>16</sup>	Site-selective bromination of sp C-H bonds. <i>Chemical Science</i> , <b>2018</b> , 9, 100-104	9.4	53
3 <sup>15</sup>	Conductive Polymer Spray Ionization Mass Spectrometry for Biofluid Analysis. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 12878-12885	7.8	24
3 <sup>14</sup>	Combining Desorption Electrospray Ionization Mass Spectrometry Imaging and Machine Learning for Molecular Recognition of Myocardial Infarction. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 12198-12206	7.8	12
3 <sup>13</sup>	Fluorescence Polarization Anisotropy in Microdroplets. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 2928-2932	6.4	42
3 <sup>12</sup>	Electrically controlled drug release using pH-sensitive polymer films. <i>Nanoscale</i> , <b>2018</b> , 10, 10087-10093	7.7	32
3 <sup>11</sup>	Preparative microdroplet synthesis of carboxylic acids from aerobic oxidation of aldehydes. <i>Chemical Science</i> , <b>2018</b> , 9, 5207-5211	9.4	35
3 <sup>10</sup>	Stark-Induced Adiabatic Passage Processes to Selectively Prepare Vibrationally Excited Single and Superposition of Quantum States <b>2018</b> , 1-46		4
3 <sup>09</sup>	Supersonic beams of mixed gases: A method for studying cold collisions. <i>Chemical Physics</i> , <b>2018</b> , 514, 150-153	2.3	12
3 <sup>08</sup>	Enhancement of reaction rate in small-sized droplets: A combined analytical and simulation study. <i>Journal of Chemical Physics</i> , <b>2018</b> , 148, 244704	3.9	31
3 <sup>07</sup>	Two-Phase Reactions in Microdroplets without the Use of Phase-Transfer Catalysts. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 3562-3565	16.4	62

306	Two-Phase Reactions in Microdroplets without the Use of Phase-Transfer Catalysts. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 3616-3619	3.6	21
305	Two New Devices for Identifying Electrochemical Reaction Intermediates with Desorption Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 3191-3198	7.8	17
304	Microdroplet fusion mass spectrometry: accelerated kinetics of acid-induced chlorophyll demetallation. <i>Quarterly Reviews of Biophysics</i> , <b>2017</b> , 50, e2	7	28
303	Potassium tert-Butoxide-Catalyzed Dehydrogenative C-H Silylation of Heteroaromatics: A Combined Experimental and Computational Mechanistic Study. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 6867-6879	16.4	122
302	Oncogene KRAS activates fatty acid synthase, resulting in specific ERK and lipid signatures associated with lung adenocarcinoma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 4300-4305	11.5	72
301	Rapid Hydrogen-Deuterium Exchange in Liquid Droplets. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 6851-6854	16.4	53
300	Ionic and Neutral Mechanisms for C-H Bond Silylation of Aromatic Heterocycles Catalyzed by Potassium tert-Butoxide. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 6880-6887	16.4	89
299	Electrically controlled release of insulin using polypyrrole nanoparticles. <i>Nanoscale</i> , <b>2017</b> , 9, 143-149	7.7	50
298	Can all bulk-phase reactions be accelerated in microdroplets?. <i>Analyst, The</i> , <b>2017</b> , 142, 1399-1402	5	92
297	Diagnosis of prostate cancer by desorption electrospray ionization mass spectrometric imaging of small metabolites and lipids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 3334-3339	11.5	118
296	Personal Information from Latent Fingerprints Using Desorption Electrospray Ionization Mass Spectrometry and Machine Learning. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 1369-1372	7.8	49
295	"On-Droplet" Chemistry: The Cycloaddition of Diethyl Azodicarboxylate and Quadricyclane. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 15279-15283	3.6	9
294	Formation of Polymeric Nanocubes by Self-Assembly and Crystallization of Dithiolane-Containing Triblock Copolymers. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 16357-16362	16.4	23
293	"On-Droplet" Chemistry: The Cycloaddition of Diethyl Azodicarboxylate and Quadricyclane. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 15083-15087	16.4	47
292	Pomeranz-Fritsch Synthesis of Isoquinoline: Gas-Phase Collisional Activation Opens Additional Reaction Pathways. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 14352-14355	16.4	12
291	Upgrading Asphaltenes by Oil Droplets Striking a Charged TiO <sub>2</sub> -Immobilized Paper Surface. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 12685-12690	4.1	4
290	Quantum control of molecular collisions at 1 kelvin. <i>Science</i> , <b>2017</b> , 358, 356-359	33.3	98
289	On-demand electrically controlled drug release from resorbable nanocomposite films. <i>Nanoscale</i> , <b>2017</b> , 9, 16429-16436	7.7	19



288	Abiotic production of sugar phosphates and uridine ribonucleoside in aqueous microdroplets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 12396-12400	11.5	101
287	Mechanism of Catalytic Oxidation of Styrenes with Hydrogen Peroxide in the Presence of Cationic Palladium(II) Complexes. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 12495-12503	16.4	34
286	Making Materials That Hate Water to Love Water: The Transformative Power of Chemistry. <i>Molecular Frontiers Journal</i> , <b>2017</b> , 01, 10-15	0.9	0
285	Polymer-spray mass spectrometric detection and quantitation of hydrophilic compounds and some narcotics. <i>Rapid Communications in Mass Spectrometry</i> , <b>2017</b> , 31, 1651-1658	2.2	20
284	Mechanistic analysis of a copper-catalyzed C-H oxidative cyclization of carboxylic acids. <i>Chemical Science</i> , <b>2017</b> , 8, 7003-7008	9.4	28
283	Nanoaggregates of Diverse Asphaltenes by Mass Spectrometry and Molecular Dynamics. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 9140-9151	4.1	48
282	Optimizing Chemical Reactions with Deep Reinforcement Learning. <i>ACS Central Science</i> , <b>2017</b> , 3, 1337-1348	14.8	179
281	Formation of Polymeric Nanocubes by Self-Assembly and Crystallization of Dithiolane-Containing Triblock Copolymers. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 16575-16580	3.6	7
280	Stark-induced adiabatic Raman ladder for preparing highly vibrationally excited quantum states of molecular hydrogen. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2017</b> , 50, 144005	1.3	9
279	Observation of electrochemically generated nitrenium ions by desorption electrospray ionization mass spectrometry. <i>Chemical Science</i> , <b>2016</b> , 7, 329-332	9.4	42
278	A Study of Heterogeneous Catalysis by Nanoparticle-Embedded Paper-Spray Ionization Mass Spectrometry. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 12999-13003	3.6	5
277	A Study of Heterogeneous Catalysis by Nanoparticle-Embedded Paper-Spray Ionization Mass Spectrometry. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 12807-11	16.4	42
276	Catalytic Carbonylative Spirolactonization of Hydroxycyclopropanols. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 10693-9	16.4	75
275	Impact of Laboratory-Induced Thermal Maturity on Asphaltene Molecular Structure. <i>Energy &amp; Fuels</i> , <b>2016</b> , 30, 7025-7036	4.1	20
274	An ultrasonically powered implantable device for targeted drug delivery. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2016</b> , 2016, 541-544	0.9	8
273	Preparation of a selected high vibrational energy level of isolated molecules. <i>Journal of Chemical Physics</i> , <b>2016</b> , 145, 154203	3.9	20
272	Fall and rise of a D2O ice cube in liquid H2O <b>2016</b> , 21, 453-456		
271	Monitoring Enzymatic Reactions in Real Time Using Venturi Easy Ambient Sonic-Spray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 6195-8	7.8	15



270	Performance of chemically modified plastic blood collection tubes. <i>Clinical Biochemistry</i> , <b>2016</b> , 49, 90-9	3.5	3
269	Going beyond electrospray: mass spectrometric studies of chemical reactions in and on liquids. <i>Chemical Science</i> , <b>2016</b> , 7, 39-55	9.4	92
268	Pancreatic Cancer Surgical Resection Margins: Molecular Assessment by Mass Spectrometry Imaging. <i>PLoS Medicine</i> , <b>2016</b> , 13, e1002108	11.6	58
267	Scaffold-mediated BMP-2 minicircle DNA delivery accelerated bone repair in a mouse critical-size calvarial defect model. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2016</b> , 104, 2099-107	5.4	20
266	Miniaturized Linear Wire Ion Trap Mass Analyzer. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 7800-6	7.8	23
265	Angular and internal state distributions of H <sub>2</sub> (+) generated by (2 + 1) resonance enhanced multiphoton ionization of H <sub>2</sub> using time-of-flight mass spectrometry. <i>Journal of Chemical Physics</i> , <b>2016</b> , 144, 214201	3.9	8
264	Multiple scattering mechanisms causing interference effects in the differential cross sections of H + D <sub>2</sub> -jHD(v' = 4, j') + D at 3.26 eV collision energy. <i>Journal of Chemical Physics</i> , <b>2016</b> , 145, 024308	3.9	12
263	Nanotip Ambient Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 5542-8	7.8	19
262	Electroresponsive nanoparticles for drug delivery on demand. <i>Nanoscale</i> , <b>2016</b> , 8, 9310-7	7.7	41
261	High-Resolution Live-Cell Imaging and Analysis by Laser Desorption/Ionization Droplet Delivery Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 5453-61	7.8	51
260	Direct Copper(III) Formation from O <sub>2</sub> and Copper(I) with Histamine Ligation. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 9986-95	16.4	22
259	Laser-Based Mass Spectrometric Assessment of Asphaltene Molecular Weight, Molecular Architecture, and Nanoaggregate Number. <i>Energy &amp; Fuels</i> , <b>2015</b> , 29, 2833-2842	4.1	88
258	Quantum interference between H + D <sub>2</sub> quasiclassical reaction mechanisms. <i>Nature Chemistry</i> , <b>2015</b> , 7, 661-7	17.6	30
257	Identification of fleeting electrochemical reaction intermediates using desorption electrospray ionization mass spectrometry. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 7274-7	16.4	86
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