

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.

280
papers

24,958
citations

87
h-index

147
g-index

281
ext. papers

26,783
ext. citations

7.3
avg, IF

6.9
L-index

#	Paper	IF	Citations
280	Azapodophyllotoxin Causes Lymphoma and Kidney Cancer Regression by Disrupting Tubulin and Monoglycerols.. <i>ACS Medicinal Chemistry Letters</i> , 2022 , 13, 615-622	4.3	
279	Early detection of unilateral ureteral obstruction by desorption electrospray ionization mass spectrometry. <i>Scientific Reports</i> , 2019 , 9, 11007	4.9	7
278	The MYC Oncogene Cooperates with Sterol-Regulated Element-Binding Protein to Regulate Lipogenesis Essential for Neoplastic Growth. <i>Cell Metabolism</i> , 2019 , 30, 556-572.e5	24.6	52
277	Packaging and delivering enzymes by amorphous metal-organic frameworks. <i>Nature Communications</i> , 2019 , 10, 5165	17.4	119
276	Pathogen-Imprinted Organosiloxane Polymers as Selective Biosensors for the Detection of Targeted. <i>Journal of Carbon Research</i> , 2018 , 4, 29	3.3	6
275	Ultra-low voltage triggered release of an anti-cancer drug from polypyrrole nanoparticles. <i>Nanoscale</i> , 2018 , 10, 9773-9779	7.7	16
274	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> , 2018 , 115, 6347-6352	11.5	45
273	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> , 2017 , 114, 4300-4305	11.5	72
272	Electrically controlled release of insulin using polypyrrole nanoparticles. <i>Nanoscale</i> , 2017 , 9, 143-149	7.7	50
271	Can all bulk-phase reactions be accelerated in microdroplets?. <i>Analyst, The</i> , 2017 , 142, 1399-1402	5	92
270	Personal Information from Latent Fingerprints Using Desorption Electrospray Ionization Mass Spectrometry and Machine Learning. <i>Analytical Chemistry</i> , 2017 , 89, 1369-1372	7.8	49
269	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> , 2017 , 114, 12396-12400	11.5	101
268	Nanoaggregates of Diverse Asphaltenes by Mass Spectrometry and Molecular Dynamics. <i>Energy & Fuels</i> , 2017 , 31, 9140-9151	4.1	48
267	Optimizing Chemical Reactions with Deep Reinforcement Learning. <i>ACS Central Science</i> , 2017 , 3, 1337-1348	16.8	179
266	Asphaltenes. <i>Springer Handbooks</i> , 2017 , 221-250	1.3	5
265	Impact of Laboratory-Induced Thermal Maturity on Asphaltene Molecular Structure. <i>Energy & Fuels</i> , 2016 , 30, 7025-7036	4.1	20
264	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> , 2016 , 2016, 541-544	0.9	8

263	Multiple scattering mechanisms causing interference effects in the differential cross sections of H + D ₂ → HD(v' = 4, j') + D at 3.26 eV collision energy. <i>Journal of Chemical Physics</i> , 2016 , 145, 024308	3.9	12
262	Electroresponsive nanoparticles for drug delivery on demand. <i>Nanoscale</i> , 2016 , 8, 9310-7	7.7	41
261	Laser-Based Mass Spectrometric Assessment of Asphaltene Molecular Weight, Molecular Architecture, and Nanoaggregate Number. <i>Energy & Fuels</i> , 2015 , 29, 2833-2842	4.1	88
260	Differential Cross Sections for the H + D ₂ → HD(v' = 3, j' = 4-10) + D Reaction above the Conical Intersection. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 12036-42	2.8	16
259	Polypyrrole nanoparticles for tunable, pH-sensitive and sustained drug release. <i>Nanoscale</i> , 2015 , 7, 9497-504	7.7	61
258	MYC oncogene overexpression drives renal cell carcinoma in a mouse model through glutamine metabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 6539-44	11.5	139
257	Microdroplet fusion mass spectrometry for fast reaction kinetics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 3898-903	11.5	138
256	Acceleration of reaction in charged microdroplets. <i>Quarterly Reviews of Biophysics</i> , 2015 , 48, 437-44	7	145
255	Syntheses of Isoquinoline and Substituted Quinolines in Charged Microdroplets. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 14795-9	16.4	117
254	Miniaturized Antimicrobial Susceptibility Test by Combining Concentration Gradient Generation and Rapid Cell Culturing. <i>Antibiotics</i> , 2015 , 4, 455-66	4.9	35
253	Laser desorption lamp ionization source for ion trap mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2015 , 50, 160-4	2.2	7
252	Laser-Based Mass Spectrometric Determination of Aggregation Numbers for Petroleum- and Coal-Derived Asphaltenes. <i>Energy & Fuels</i> , 2014 , 28, 475-482	4.1	72
251	One-pot synthesis of protein-embedded metal-organic frameworks with enhanced biological activities. <i>Nano Letters</i> , 2014 , 14, 5761-5	11.5	585
250	Constant Asphaltene Molecular and Nanoaggregate Mass in a Gravitationally Segregated Reservoir. <i>Energy & Fuels</i> , 2014 , 28, 3010-3015	4.1	41
249	Alteration of the lipid profile in lymphomas induced by MYC overexpression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 10450-5	11.5	99
248	Is the simplest chemical reaction really so simple?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 15-20	11.5	61
247	Molecular assessment of surgical-resection margins of gastric cancer by mass-spectrometric imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 2436-41	11.5	148
246	Minimization of fragmentation and aggregation by laser desorption laser ionization mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2013 , 24, 1116-22	3.5	49

245	Temperature-responsive enzyme-polymer nanoconjugates with enhanced catalytic activities in organic media. <i>Chemical Communications</i> , 2013 , 49, 6090-2	5.8	56
244	Rapid detection of phenol using a membrane containing laccase nanoflowers. <i>Chemistry - an Asian Journal</i> , 2013 , 8, 2358-60	4.5	107
243	Functional protein-organic/inorganic hybrid nanomaterials. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2013 , 5, 320-8	9.2	54
242	Characterization of MYC-induced tumorigenesis by in situ lipid profiling. <i>Analytical Chemistry</i> , 2013 , 85, 4259-62	7.8	30
241	The hydrogen games and other adventures in chemistry. <i>Annual Review of Physical Chemistry</i> , 2013 , 64, 1-19	15.7	12
240	Lysis of a Single Cyanobacterium for Whole Genome Amplification. <i>Micromachines</i> , 2013 , 4, 321-332	3.3	9
239	Laser Desorption Single-Photon Ionization of Asphaltenes: Mass Range, Compound Sensitivity, and Matrix Effects. <i>Energy & Fuels</i> , 2012 , 26, 3521-3526	4.1	42
238	Advances in Asphaltene Science and the Yen-Mullins Model. <i>Energy & Fuels</i> , 2012 , 26, 3986-4003	4.1	621
237	Protein-polymer hybrid nanoparticles for drug delivery. <i>Small</i> , 2012 , 8, 3573-8	11	77
236	Drug release from electric-field-responsive nanoparticles. <i>ACS Nano</i> , 2012 , 6, 227-33	16.7	370
235	My life with LIF: a personal account of developing laser-induced fluorescence. <i>Annual Review of Analytical Chemistry</i> , 2012 , 5, 1-14	12.5	44
234	Protein-inorganic hybrid nanoflowers. <i>Nature Nanotechnology</i> , 2012 , 7, 428-32	28.7	761
233	Seemingly anomalous angular distributions in H + D ₂ reactive scattering. <i>Science</i> , 2012 , 336, 1687-90	33.3	39
232	Particle sorting using a porous membrane in a microfluidic device. <i>Lab on A Chip</i> , 2011 , 11, 238-45	7.2	108
231	Control and imaging of O(1D ₂) precession. <i>Nature Chemistry</i> , 2011 , 3, 28-33	17.6	8
230	Differential cross sections for H + D ₂ → HD(v' = 2, j' = 0,3,6,9) + D at center-of-mass collision energies of 1.25, 1.61, and 1.97 eV. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 8175-9	3.6	14
229	Evidence for Island Structures as the Dominant Architecture of Asphaltenes. <i>Energy & Fuels</i> , 2011 , 25, 1597-1604	4.1	199
228	Whole gene amplification and protein separation from a few cells. <i>Analytical Biochemistry</i> , 2011 , 411, 64-70	3.1	9

227	Polycyclic aromatic hydrocarbons in asteroid 2008 TC3: Dispersion of organic compounds inside asteroids. <i>Meteoritics and Planetary Science</i> , 2010 , 45, 1710-1717	2.8	19
226	Single-molecule spectroscopy using microfluidic platforms. <i>Methods in Enzymology</i> , 2010 , 472, 119-32	1.7	6
225	Comparing Laser Desorption/Laser Ionization Mass Spectra of Asphaltenes and Model Compounds. <i>Energy & Fuels</i> , 2010 , 24, 3589-3594	4.1	58
224	Assessment and control of organic and other contaminants associated with the Stardust sample return from comet 81P/Wild 2. <i>Meteoritics and Planetary Science</i> , 2010 , 45, 406-433	2.8	48
223	Microfluidic platforms for single-cell analysis. <i>Annual Review of Biomedical Engineering</i> , 2010 , 12, 187-2012		258
222	Ultraviolet thermal lensing detection of amino acids. <i>Journal of Chromatography A</i> , 2009 , 1216, 3423-30	4.5	9
221	High-precision optical measurements of ¹³ C/ ¹² C isotope ratios in organic compounds at natural abundance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 10928-32	11.5	41
220	Asphaltene Molecular-Mass Distribution Determined by Two-Step Laser Mass Spectrometry□ <i>Energy & Fuels</i> , 2009 , 23, 1162-1168	4.1	113
219	Time-dependent depolarization of aligned HD molecules. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 142-7	3.6	15
218	Vibrational excitation through tug-of-war inelastic collisions. <i>Nature</i> , 2008 , 454, 88-91	50.4	48
217	Two-step laser mass spectrometry of asphaltenes. <i>Journal of the American Chemical Society</i> , 2008 , 130, 7216-7	16.4	159
216	Identifying the source of a strong fullerene envelope arising from laser desorption mass spectrometric analysis of meteoritic insoluble organic matter. <i>Geochimica Et Cosmochimica Acta</i> , 2008 , 72, 5521-5529	5.5	16
215	Microfluidic device for immunoassays based on surface plasmon resonance imaging. <i>Lab on A Chip</i> , 2008 , 8, 694-700	7.2	123
214	Perforated membrane method for fabricating three-dimensional polydimethylsiloxane microfluidic devices. <i>Lab on A Chip</i> , 2008 , 8, 1688-94	7.2	42
213	Folding control and unfolding free energy of yeast iso-1-cytochrome c bound to layered zirconium phosphate materials monitored by surface plasmon resonance. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 9201-8	3.4	7
212	Corroboration of theory for H + D ₂ → D + HD (<i>v</i> ' = 3, <i>j</i> ' = 0) reactive scattering dynamics. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 9266-8	2.8	13
211	Vibrationally inelastic H + D ₂ collisions are forward-scattered. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 18194-9	11.5	22
210	Laser mass spectrometric detection of extraterrestrial aromatic molecules: mini-review and examination of pulsed heating effects. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 18096-101	11.5	48

209	Preparation of oriented and aligned H(2) and HD by stimulated Raman pumping. <i>Journal of Chemical Physics</i> , 2008 , 129, 084312	3.9	20
208	Use of a mixture of n-dodecyl-beta-D-maltoside and sodium dodecyl sulfate in poly(dimethylsiloxane) microchips to suppress adhesion and promote separation of proteins. <i>Analytical Chemistry</i> , 2007 , 79, 9145-9	7.8	21
207	Surface plasmon resonance imaging using a high numerical aperture microscope objective. <i>Analytical Chemistry</i> , 2007 , 79, 2979-83	7.8	183
206	A monomeric G protein-coupled receptor isolated in a high-density lipoprotein particle efficiently activates its G protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 7682-7	11.5	540
205	Comment on "Organics captured from comet 81P/Wild 2 by the Stardust spacecraft". <i>Science</i> , 2007 , 317, 1680; author reply 1680	33.3	25
204	Optical control of ground-state atomic orbital alignment: Cl(2P3/2) atoms from HCl(v=2,J=1) photodissociation. <i>Journal of Chemical Physics</i> , 2007 , 127, 144307	3.9	12
203	Preparation of highly polarized nuclei: Observation and control of time-dependent polarization transfer from HCl35 molecular rotation to Cl35 nuclear spin. <i>Physical Review A</i> , 2007 , 76,	2.6	16
202	Collaborative Research: The Good, the Bad, and the Beautiful. <i>ACS Symposium Series</i> , 2007 , 259-270	0.4	
201	Reaction of Cl with CD4 excited to the second C-D stretching overtone. <i>Journal of Chemical Physics</i> , 2007 , 126, 044315	3.9	11
200	Counting low-copy number proteins in a single cell. <i>Science</i> , 2007 , 315, 81-4	33.3	328
199	Microfluidic separation and capture of analytes for single-molecule spectroscopy. <i>Lab on A Chip</i> , 2007 , 7, 1663-5	7.2	19
198	Optical Detection and Manipulation of Single Molecules in Room-Temperature Solutions. <i>Chemistry - A European Journal</i> , 2006 , 3, 335-339	4.8	11
197	Comparing reactions of H and Cl with C-H stretch-excited CHD3. <i>Journal of Chemical Physics</i> , 2006 , 124, 034311	3.9	50
196	Comet 81P/Wild 2 under a microscope. <i>Science</i> , 2006 , 314, 1711-6	33.3	739
195	Phospholipid biotinylation of polydimethylsiloxane (PDMS) for protein immobilization. <i>Lab on A Chip</i> , 2006 , 6, 369-73	7.2	33
194	UV photolysis of quinoline in interstellar ice analogs. <i>Meteoritics and Planetary Science</i> , 2006 , 41, 785-796.8		31
193	Controlling electroosmotic flow in poly(dimethylsiloxane) separation channels by means of prepolymer additives. <i>Analytical Chemistry</i> , 2006 , 78, 4588-92	7.8	41
192	Organics captured from comet 81P/Wild 2 by the Stardust spacecraft. <i>Science</i> , 2006 , 314, 1720-4	33.3	464

191	H + CD4 abstraction reaction dynamics: excitation function and angular distributions. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 677-86	2.8	50
190	Effect of bending and torsional mode excitation on the reaction Cl+CH4-->HCl+CH3. <i>Journal of Chemical Physics</i> , 2005 , 122, 84303	3.9	36
189	Construction of microfluidic chips using polydimethylsiloxane for adhesive bonding. <i>Lab on A Chip</i> , 2005 , 5, 1393-8	7.2	163
188	Coating of poly(dimethylsiloxane) with n-dodecyl-beta-D-maltoside to minimize nonspecific protein adsorption. <i>Lab on A Chip</i> , 2005 , 5, 1005-7	7.2	118
187	Evanescent-wave cavity ring-down investigation of polymer/solvent interactions. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 7435-42	3.4	22
186	Enhanced proteolytic activity of covalently bound enzymes in photopolymerized sol gel. <i>Analytical Chemistry</i> , 2005 , 77, 4604-10	7.8	78
185	A reinterpretation of the mechanism of the simplest reaction at an sp ³ -hybridized carbon atom: H + CD4 --> CD3 + HD. <i>Journal of the American Chemical Society</i> , 2005 , 127, 11898-9	16.4	63
184	Alkylation of polycyclic aromatic hydrocarbons in carbonaceous chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2005 , 69, 1349-1357	5.5	44
183	Moving beyond traditional UV-visible absorption detection: cavity ring-down spectroscopy for HPLC. <i>Analytical Chemistry</i> , 2005 , 77, 1177-82	7.8	44
182	Gold nanoparticles as a colorimetric sensor for protein conformational changes. <i>Chemistry and Biology</i> , 2005 , 12, 323-8		222
181	Effects of bending excitation on the reaction of chlorine atoms with methane. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 2382-5	16.4	49
180	Effects of Bending Excitation on the Reaction of Chlorine Atoms with Methane. <i>Angewandte Chemie</i> , 2005 , 117, 2434-2437	3.6	1
179	Collision-energy dependence of HD($\nu'=1, j'$) product rotational distributions for the H + D ₂ reaction. <i>Journal of Chemical Physics</i> , 2005 , 123, 054306	3.9	17
178	Effects of C-H stretch excitation on the H+CH ₄ reaction. <i>Journal of Chemical Physics</i> , 2005 , 123, 134301	3.9	62
177	Correlated energy disposal and scattering dynamics of the Cl CD ₄ ($\beta = 2$) reaction. <i>Molecular Physics</i> , 2005 , 103, 1837-1846	1.7	15
176	Comparing the dynamical effects of symmetric and antisymmetric stretch excitation of methane in the Cl+CH ₄ reaction. <i>Journal of Chemical Physics</i> , 2004 , 120, 5096-103	3.9	73
175	Rovibrational product state distribution for inelastic H+D ₂ collisions. <i>Journal of Chemical Physics</i> , 2004 , 121, 6587-90	3.9	16
174	Bond and mode selectivity in the reaction of atomic chlorine with vibrationally excited CH ₂ D ₂ . <i>Journal of Chemical Physics</i> , 2004 , 120, 791-9	3.9	62

173	State-to-state dynamics of the Cl + CH ₃ OH → HCl + CH ₂ OH reaction. <i>Journal of Chemical Physics</i> , 2004 , 120, 4231-9	3.9	11
172	Collision energy dependence of the HD($\nu' = 2$) product rotational distribution of the H + D ₂ reaction in the range 1.30-1.89 eV. <i>Journal of Chemical Physics</i> , 2004 , 120, 3255-64	3.9	33
171	Chemical cytometry on a picoliter-scale integrated microfluidic chip. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 12809-13	11.5	210
170	Electroosmotic flow in a poly(dimethylsiloxane) channel does not depend on percent curing agent. <i>Electrophoresis</i> , 2004 , 25, 1120-4	3.6	31
169	Photon counting histogram: one-photon excitation. <i>ChemPhysChem</i> , 2004 , 5, 1523-31	3.2	71
168	Laboratory experiments of Titan tholin formed in cold plasma at various pressures: implications for nitrogen-containing polycyclic aromatic compounds in Titan haze. <i>Icarus</i> , 2004 , 168, 344-366	3.8	259
167	An evolutionary connection between interstellar ices and IDPs? Clues from mass spectroscopy measurements of laboratory simulations. <i>Advances in Space Research</i> , 2004 , 33, 67-71	2.4	21
166	Disagreement between theory and experiment in the simplest chemical reaction: collision energy dependent rotational distributions for H + D ₂ → HD($\nu' = 3, j'$) + D. <i>Journal of Chemical Physics</i> , 2004 , 120, 3244-54	3.9	60
165	Denaturation and renaturation of self-assembled yeast iso-1-cytochrome c on Au. <i>Analytical Chemistry</i> , 2004 , 76, 2112-7	7.8	35
164	Factors affecting quantitative analysis in laser desorption/laser ionization mass spectrometry. <i>Analytical Chemistry</i> , 2004 , 76, 2430-7	7.8	39
163	Cavity ring-down spectroscopy as a detector for liquid chromatography. <i>Analytical Chemistry</i> , 2003 , 75, 3086-91	7.8	71
162	Side Group Addition to the Polycyclic Aromatic Hydrocarbon Coronene by Proton Irradiation in Cosmic Ice Analogs. <i>Astrophysical Journal</i> , 2003 , 582, L25-L29	4.7	68
161	Formation of carbon-carbon bonds in the photochemical alkylation of polycyclic aromatic hydrocarbons. <i>Origins of Life and Evolution of Biospheres</i> , 2003 , 33, 17-35	1.5	18
160	Determination of glutamine and serine in rat cerebrospinal fluid using capillary electrochromatography with a modified photopolymerized sol-gel monolithic column. <i>Journal of Chromatography A</i> , 2003 , 1004, 209-15	4.5	21
159	Adsorption of Crystal Violet to the Silica/Water Interface Monitored by Evanescent Wave Cavity Ring-Down Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 7070-7075	3.4	72
158	Flow injection analysis in a microfluidic format. <i>Analytical Chemistry</i> , 2003 , 75, 967-72	7.8	74
157	PAH sorption mechanism and partitioning behavior in lampblack-impacted soils from former oil-gas plant sites. <i>Environmental Science & Technology</i> , 2003 , 37, 3625-34	10.3	75
156	Evidence that polycyclic aromatic hydrocarbons in two carbonaceous chondrites predate parent-body formation. <i>Geochimica Et Cosmochimica Acta</i> , 2003 , 67, 1429-1436	5.5	45

155	Microfluidic device for single-cell analysis. <i>Analytical Chemistry</i> , 2003 , 75, 3581-6	7.8	475
154	Measurement of the cross section for $H+D_2 \rightarrow HD(v=3, j=0)+D$ as a function of angle and energy. <i>Journal of Chemical Physics</i> , 2003 , 119, 4662-4670	3.9	22
153	Functional immobilization of a ligand-activated G-protein-coupled receptor. <i>ChemBioChem</i> , 2002 , 3, 993-88	57	
152	Observation and interpretation of a time-delayed mechanism in the hydrogen exchange reaction. <i>Nature</i> , 2002 , 416, 67-70	50.4	172
151	Effect of preparatory conditions on the performance of photopolymerized sol-gel monoliths for capillary electrochromatography. <i>Journal of Chromatography A</i> , 2002 , 961, 45-51	4.5	50
150	Scattering resonances in the simplest chemical reaction. <i>Annual Review of Physical Chemistry</i> , 2002 , 53, 67-99	15.7	156
149	Side Group Addition to the Polycyclic Aromatic Hydrocarbon Coronene by Ultraviolet Photolysis in Cosmic Ice Analogs. <i>Astrophysical Journal</i> , 2002 , 576, 1115-1120	4.7	90
148	Hadamard transform time-of-flight mass spectrometry: a high-speed detector for capillary-format separations. <i>Analytical Chemistry</i> , 2002 , 74, 1611-7	7.8	45
147	Direct monitoring of absorption in solution by cavity ring-down spectroscopy. <i>Analytical Chemistry</i> , 2002 , 74, 1741-3	7.8	70
146	Analysis of biomolecular interactions using a miniaturized surface plasmon resonance sensor. <i>Analytical Chemistry</i> , 2002 , 74, 4570-6	7.8	48
145	Stable isotope ratios using cavity ring-down spectroscopy: determination of $^{13}C/^{12}C$ for carbon dioxide in human breath. <i>Analytical Chemistry</i> , 2002 , 74, 2003-7	7.8	189
144	Channel-specific angular distributions of HCl and CH ₃ products from the reaction of atomic chlorine with stretch-excited methane. <i>Journal of Chemical Physics</i> , 2002 , 117, 3232-3242	3.9	54
143	Microscale detection of polychlorinated biphenyls using two-step laser mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2001 , 212, 41-48	1.9	6
142	Comparison of microprobe two-step laser desorption/laser ionization mass spectrometry and gas chromatography/ mass spectrometry studies of polycyclic aromatic hydrocarbons in ancient terrestrial rocks. <i>Journal of the American Society for Mass Spectrometry</i> , 2001 , 12, 989-1001	3.5	16
141	Bounce-by-bounce cavity ring-down spectroscopy: femtosecond temporal imaging. <i>ChemPhysChem</i> , 2001 , 2, 118-21	3.2	6
140	Photopolymerized sol-gel frits for packed columns in capillary electrochromatography. <i>Journal of Chromatography A</i> , 2001 , 924, 187-95	4.5	54
139	Vibrational control in the reaction of methane with atomic chlorine. <i>Journal of the American Chemical Society</i> , 2001 , 123, 12714-5	16.4	79
138	Vibrational and collisional energy effects in the reaction of ammonia ions with methylamine. <i>Journal of Chemical Physics</i> , 2001 , 115, 124-132	3.9	3

137	Forward scattering in the H+D ₂ ->HD+D reaction: Comparison between experiment and theoretical predictions. <i>Journal of Chemical Physics</i> , 2001 , 115, 4534-4545	3.9	31
136	Comparison of near-threshold reactivity of ground-state and spin-orbit excited chlorine atoms with methane. <i>Journal of Chemical Physics</i> , 2001 , 115, 179-183	3.9	33
135	Microprobe laser mass spectrometry studies of polycyclic aromatic hydrocarbon distributions on harbor sediments and coals. <i>Israel Journal of Chemistry</i> , 2001 , 41, 105-110	3.4	4
134	Semipreparative capillary electrochromatography. <i>Analytical Chemistry</i> , 2001 , 73, 1987-92	7.8	33
133	In-situ Preparation of Photopolymerized Sol-Gel Monoliths for Capillary Electrochromatography on a Chip 2001 , 557-558		
132	Deuterium enrichment of polycyclic aromatic hydrocarbons by photochemically induced exchange with deuterium-rich cosmic ices. <i>Astrophysical Journal</i> , 2000 , 538, 691-7	4.7	49
131	Separation of related opiate compounds using capillary electrochromatography. <i>Electrophoresis</i> , 2000 , 21, 737-42	3.6	27
130	Softening of fused-silica capillaries during particle packing. <i>Electrophoresis</i> , 2000 , 21, 1430-1	3.6	1
129	Enantiomeric separation of amino acids and nonprotein amino acids using a particle-loaded monolithic column. <i>Electrophoresis</i> , 2000 , 21, 3145-51	3.6	74
128	Evidence for Scattering Resonances in the H+D ₂ Reaction. <i>Angewandte Chemie - International Edition</i> , 2000 , 39, 2748-2752	16.4	47
127	Near-surface reduction of cavity ring-down spectroscopy detection sensitivity. <i>Chemical Physics Letters</i> , 2000 , 318, 555-560	2.5	9
126	Characterization of a Hadamard transform time-of-flight mass spectrometer. <i>Review of Scientific Instruments</i> , 2000 , 71, 1306-1318	1.7	43
125	Microscale Location, Characterization, and Association of Polycyclic Aromatic Hydrocarbons on Harbor Sediment Particles. <i>Environmental Science & Technology</i> , 2000 , 34, 1729-1736	10.3	250
124	Macroporous photopolymer frits for capillary electrochromatography. <i>Analytical Chemistry</i> , 2000 , 72, 1224-7	7.8	77
123	Novel Separation Method on a Chip Using Capillary Electrophoresis in Combination with Dielectrophoresis 2000 , 269-272		2
122	Differential cross sections for H+D ₂ ->HD (v?=2, J?=0,3,5)+D at 1.55 eV. <i>Journal of Chemical Physics</i> , 1999 , 111, 2490-2498	3.9	28
121	Measurement of the HD(v?=2, J?=3) product differential cross section for the H+D ₂ exchange reaction at 1.55±0.05 eV using the photoloc technique. <i>Journal of Chemical Physics</i> , 1999 , 111, 1022-1034	3.9	36
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