

Richard N Zare

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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	Protein-inorganic hybrid nanoflowers. <i>Nature Nanotechnology</i> , 2012 , 7, 428-32	28.7	761
279	Comet 81P/Wild 2 under a microscope. <i>Science</i> , 2006 , 314, 1711-6	33.3	739
278	Advances in Asphaltene Science and the Yen-Mullins Model. <i>Energy & Fuels</i> , 2012 , 26, 3986-4003	4.1	621
277	One-pot synthesis of protein-embedded metal-organic frameworks with enhanced biological activities. <i>Nano Letters</i> , 2014 , 14, 5761-5	11.5	585
276	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
275	Microfluidic device for single-cell analysis. <i>Analytical Chemistry</i> , 2003 , 75, 3581-6	7.8	475
274	Organics captured from comet 81P/Wild 2 by the Stardust spacecraft. <i>Science</i> , 2006 , 314, 1720-4	33.3	464
273	Current-monitoring method for measuring the electroosmotic flow rate in capillary zone electrophoresis. <i>Analytical Chemistry</i> , 1988 , 60, 1837-1838	7.8	416
272	Cavity ring-down spectroscopy for quantitative absorption measurements. <i>Journal of Chemical Physics</i> , 1995 , 102, 2708-2717	3.9	373
271	Optical detection of single molecules. <i>Annual Review of Biophysics and Biomolecular Structure</i> , 1997 , 26, 567-96		372
270	Drug release from electric-field-responsive nanoparticles. <i>ACS Nano</i> , 2012 , 6, 227-33	16.7	370
269	Counting low-copy number proteins in a single cell. <i>Science</i> , 2007 , 315, 81-4	33.3	328
268	Electrokinetic resolution of amino acid enantiomers with copper(II)-aspartame support electrolyte. <i>Analytical Chemistry</i> , 1987 , 59, 44-49	7.8	315
267	UV irradiation of polycyclic aromatic hydrocarbons in ices: production of alcohols, quinones, and ethers. <i>Science</i> , 1999 , 283, 1135-8	33.3	310
266	Quantitative determination of low molecular weight carboxylic acids by capillary zone electrophoresis/conductivity detection. <i>Analytical Chemistry</i> , 1989 , 61, 766-770	7.8	275
265	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
264	Microfluidic platforms for single-cell analysis. <i>Annual Review of Biomedical Engineering</i> , 2010 , 12, 187-201		258

263	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
262	Gold nanoparticles as a colorimetric sensor for protein conformational changes. <i>Chemistry and Biology</i> , 2005 , 12, 323-8		222
261	Determination of carbohydrates by capillary zone electrophoresis with amperometric detection at a copper microelectrode. <i>Analytical Chemistry</i> , 1993 , 65, 476-481	7.8	221
260	Chemical transformations in individual ultrasmall biomimetic containers. <i>Science</i> , 1999 , 283, 1892-5	33.3	218
259	Reaction of Cl with vibrationally excited CH ₄ and CHD ₃ : State-to-state differential cross sections and steric effects for the HCl product. <i>Journal of Chemical Physics</i> , 1995 , 103, 7313-7335	3.9	211
258	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
257	Analysis of factors causing peak broadening in capillary zone electrophoresis. <i>Journal of Chromatography A</i> , 1989 , 480, 95-110	4.5	206
256	Evidence for Island Structures as the Dominant Architecture of Asphaltenes. <i>Energy & Fuels</i> , 2011 , 25, 1597-1604	4.1	199
255	Capillary electrochromatography: operating characteristics and enantiomeric separations. <i>Journal of Chromatography A</i> , 1996 , 723, 145-156	4.5	194
254	Capillary Electrochromatography: Analysis of Polycyclic Aromatic Hydrocarbons. <i>Analytical Chemistry</i> , 1995 , 67, 2026-2029	7.8	193
253	Bond-specific chemistry: OD:OH product ratios for the reactions H+HOD(100) and H+HOD(001). <i>Journal of Chemical Physics</i> , 1991 , 95, 8647-8648	3.9	193
252	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
251	Bias in quantitative capillary zone electrophoresis caused by electrokinetic sample injection. <i>Analytical Chemistry</i> , 1988 , 60, 375-377	7.8	187
250	Surface plasmon resonance imaging using a high numerical aperture microscope objective. <i>Analytical Chemistry</i> , 2007 , 79, 2979-83	7.8	183
249	End-column detection for capillary zone electrophoresis. <i>Analytical Chemistry</i> , 1991 , 63, 189-92	7.8	180
248	Optimizing Chemical Reactions with Deep Reinforcement Learning. <i>ACS Central Science</i> , 2017 , 3, 1337-1348	14.8	179
247	Beyond State-to-State Differential Cross Sections: Determination of Product Polarization in Photoinitiated Bimolecular Reactions. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 7591-7603		177
246	Observation and interpretation of a time-delayed mechanism in the hydrogen exchange reaction. <i>Nature</i> , 2002 , 416, 67-70	50.4	172

- 245 Selection rules for the photoionization of diatomic molecules. *Journal of Chemical Physics*, **1990**, 93, 3033-3038 172
- 244 On-column conductivity detector for capillary zone electrophoresis. *Analytical Chemistry*, **1987**, 59, 2747-2749 172
- 243 Preparation and characterization of monolithic porous capillary columns loaded with chromatographic particles. *Analytical Chemistry*, **1998**, 70, 5103-7 7.8 167
- 242 Construction of microfluidic chips using polydimethylsiloxane for adhesive bonding. *Lab on A Chip*, **2005**, 5, 1393-8 7.2 163
- 241 Radiative lifetimes of the alkaline earth monohalides. *Journal of Chemical Physics*, **1974**, 60, 2330-2339 3.9 161
- 240 Effect of atomic reagent approach geometry on reactivity: Reactions of aligned Ca(1P1) with HCl, Cl₂, and CCl₄. *Journal of Chemical Physics*, **1982**, 77, 2416-2429 3.9 160
- 239 Two-step laser mass spectrometry of asphaltenes. *Journal of the American Chemical Society*, **2008**, 130, 7216-7 16.4 159
- 238 Dissociation of H₂⁺ by Electron Impact: Calculated Angular Distribution. *Journal of Chemical Physics*, **1967**, 47, 204-215 3.9 158
- 237 Scattering resonances in the simplest chemical reaction. *Annual Review of Physical Chemistry*, **2002**, 53, 67-99 15.7 156
- 236 Determination of Internal-State Distributions of Surface Scattered Molecules: Incomplete Rotational Accommodation of NO on Ag(111). *Physical Review Letters*, **1981**, 46, 831-834 7.4 154
- 235 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, 2436-41 11.5 148
- 234 Interdisciplinary Research: From Belief to Reality. *Science*, **1999**, 283, 642-643 33.3 146
- 233 Real-Time Detection of Single Molecules in Solution by Confocal Fluorescence Microscopy. *Analytical Chemistry*, **1995**, 67, 2849-2857 7.8 146
- 232 Acceleration of reaction in charged microdroplets. *Quarterly Reviews of Biophysics*, **2015**, 48, 437-44 7 145
- 231 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, 6539-44 11.5 139
- 230 Microdroplet fusion mass spectrometry for fast reaction kinetics. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 3898-903 11.5 138
- 229 State-to-state differential cross sections for the reaction Cl (2P_{3/2}) + CH₄ (B = 1, J = 1) → HCl (v? = 1, J?) + CH₃. *Chemical Physics Letters*, **1993**, 212, 163-171 2.5 136
- 228 Structure and dynamics of the excited CH₂ chromophore in (CF₃)₃CH. *Journal of Chemical Physics*, **1985**, 82, 1186-1194 3.9 136

227	Effect of reagent orientation and rotation upon product state distribution in the reaction $\text{Sr} + \text{HF} (v=1, J) \rightarrow \text{SrF}(v?, J?) + \text{H}$. <i>Journal of Chemical Physics</i> , 1978 , 69, 5199-5201	3.9	135
226	Picturing the Transition-State Region and Understanding Vibrational Enhancement for the $\text{Cl} + \text{CH}_4 \rightarrow \text{HCl} + \text{CH}_3$ Reaction. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 7938-7947		133
225	State-to-state reaction rates: $\text{Ba} + \text{HF}(v=0, 1) \rightarrow \text{BaF}(v=0, 1) + \text{H}$. <i>Journal of Chemical Physics</i> , 1976 , 64, 1774-1783	3.9	129
224	Effect of reagent vibration on the hydrogen atom + water-d reaction: an example of bond-specific chemistry. <i>The Journal of Physical Chemistry</i> , 1993 , 97, 2194-2203		125
223	Rectangular capillaries for capillary zone electrophoresis. <i>Analytical Chemistry</i> , 1990 , 62, 2149-2152	7.8	125
222	Microfluidic device for immunoassays based on surface plasmon resonance imaging. <i>Lab on A Chip</i> , 2008 , 8, 694-700	7.2	123
221	Gradient elution in capillary electrochromatography. <i>Analytical Chemistry</i> , 1996 , 68, 2726-30	7.8	123
220	Online Time-of-Flight Mass Spectrometric Analysis of Peptides Separated by Capillary Electrophoresis. <i>Analytical Chemistry</i> , 1994 , 66, 3696-3701	7.8	122
219	Direct inelastic scattering of N_2 from $\text{Ag}(111)$. I. Rotational populations and alignment. <i>Journal of Chemical Physics</i> , 1988 , 89, 2558-2571	3.9	122
218	Packaging and delivering enzymes by amorphous metal-organic frameworks. <i>Nature Communications</i> , 2019 , 10, 5165	17.4	119
217	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
216	Syntheses of Isoquinoline and Substituted Quinolines in Charged Microdroplets. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 14795-9	16.4	117
215	Fluorescence detection in capillary zone electrophoresis using a charge-coupled device with time-delayed integration. <i>Analytical Chemistry</i> , 1991 , 63, 496-502	7.8	117
214	Molecular Level-Crossing Spectroscopy. <i>Journal of Chemical Physics</i> , 1966 , 45, 4510-4518	3.9	115
213	Asphaltene Molecular-Mass Distribution Determined by Two-Step Laser Mass Spectrometry. <i>Energy & Fuels</i> , 2009 , 23, 1162-1168	4.1	113
212	High-resolution angle- and energy-resolved photoelectron spectroscopy of NO: Partial wave decomposition of the ionization continuum. <i>Journal of Chemical Physics</i> , 1989 , 91, 2216-2234	3.9	112
211	Protocol for resolving protein mixtures in capillary zone electrophoresis. <i>Analytical Chemistry</i> , 1991 , 63, 69-72	7.8	112
210	Superthermal widths of the collision energy distributions in hot atom reactions. <i>The Journal of Physical Chemistry</i> , 1991 , 95, 8205-8207		110

209	Particle sorting using a porous membrane in a microfluidic device. <i>Lab on A Chip</i> , 2011 , 11, 238-45	7.2	108
208	Rapid detection of phenol using a membrane containing laccase nanoflowers. <i>Chemistry - an Asian Journal</i> , 2013 , 8, 2358-60	4.5	107
207	Core extraction for measuring state-to-state differential cross sections of bimolecular reactions. <i>Journal of Chemical Physics</i> , 1995 , 103, 7299-7312	3.9	105
206	State-to-state differential cross sections from photoinitiated bulb reactions. <i>Chemical Physics Letters</i> , 1993 , 212, 155-162	2.5	102
205	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
204	Determination of methotrexate and its major metabolite, 7-hydroxymethotrexate, using capillary zone electrophoresis and laser-induced fluorescence detection. <i>Biomedical Applications</i> , 1988 , 426, 129-40		100
203	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
202	Effect of vibrational excitation on the molecular beam reactions of Ca and Sr with HF and DF. <i>Journal of Chemical Physics</i> , 1978 , 68, 3360-3365	3.9	95
201	A search for mode-selective chemistry: The unimolecular dissociation of t-butyl hydroperoxide induced by vibrational overtone excitation. <i>Journal of Chemical Physics</i> , 1982 , 77, 4447-4458	3.9	94
200	Biased Diffusion, Optical Trapping, and Manipulation of Single Molecules in Solution. <i>Journal of the American Chemical Society</i> , 1996 , 118, 6512-6513	16.4	93
199	Can all bulk-phase reactions be accelerated in microdroplets?. <i>Analyst, The</i> , 2017 , 142, 1399-1402	5	92
198	Comparison of experimental and theoretical integral cross sections for $D+H_2(v=1, j=1) \rightarrow HD(v=1, j)+H$. <i>Journal of Chemical Physics</i> , 1991 , 95, 1648-1662	3.9	92
197	Correlation Effects in Complex Spectra. II. Transition Probabilities for the Magnesium Isoelectronic Sequence. <i>Journal of Chemical Physics</i> , 1967 , 47, 3561-3572	3.9	92
196	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
195	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
194	On-line connector for microcolumns: application to the on-column o-phthaldialdehyde derivatization of amino acids separated by capillary zone electrophoresis. <i>Analytical Chemistry</i> , 1988 , 60, 2625-9	7.8	88
193	Probing single secretory vesicles with capillary electrophoresis. <i>Science</i> , 1998 , 279, 1190-3	33.3	86
192	Ultrasensitive fluorescence detection of polycyclic aromatic hydrocarbons in capillary electrophoresis. <i>Analytical Chemistry</i> , 1993 , 65, 3571-3575	7.8	86

191	Spectroscopy of K2 Using Laser-Induced Fluorescence. <i>Journal of Chemical Physics</i> , 1968 , 49, 4264-4268	3.9	86
190	Comparison of reagent stretch vs bend excitation in the hydrogen atom + water-d2 reaction: an example of mode-selective chemistry. <i>The Journal of Physical Chemistry</i> , 1993 , 97, 2204-2208		84
189	Effect of atomic reagent approach geometry on electronic state branching: The Ca(1P1) + HCl reaction. <i>Journal of Chemical Physics</i> , 1981 , 75, 3636-3637	3.9	80
188	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
187	Advances in Capillary Electrochromatography: Rapid and High-Efficiency Separations of PAHs. <i>Analytical Chemistry</i> , 1998 , 70, 4787-4792	7.8	79
186	Determination of metal ion complexes in electroplating solutions using capillary zone electrophoresis with uv detection. <i>Journal of Chromatography A</i> , 1989 , 480, 427-431	4.5	79
185	Enhanced proteolytic activity of covalently bound enzymes in photopolymerized sol gel. <i>Analytical Chemistry</i> , 2005 , 77, 4604-10	7.8	78
184	Protein-polymer hybrid nanoparticles for drug delivery. <i>Small</i> , 2012 , 8, 3573-8	11	77
183	Macroporous photopolymer frits for capillary electrochromatography. <i>Analytical Chemistry</i> , 2000 , 72, 1224-7	7.8	77
182	Dynamics for the Cl+C2H6->HCl+C2H5 reaction examined through state-specific angular distributions. <i>Journal of Chemical Physics</i> , 1996 , 105, 7550-7559	3.9	76
181	Measurement of product alignment in beam-gas chemiluminescent reactions. <i>Journal of Chemical Physics</i> , 1981 , 75, 2222-2230	3.9	76
180	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
179	Reaction dynamics of atomic chlorine with methane: Importance of methane bending and torsional excitation in controlling reactivity. <i>Journal of Chemical Physics</i> , 1998 , 109, 9719-9727	3.9	75
178	Manipulating the biochemical nanoenvironment around single molecules contained within vesicles. <i>Chemical Physics</i> , 1999 , 247, 133-139	2.3	75
177	Flow injection analysis in a microfluidic format. <i>Analytical Chemistry</i> , 2003 , 75, 967-72	7.8	74
176	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
175	Comparing the dynamical effects of symmetric and antisymmetric stretch excitation of methane in the Cl+CH4 reaction. <i>Journal of Chemical Physics</i> , 2004 , 120, 5096-103	3.9	73
174	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

173	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
172	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
171	Cavity ring-down spectroscopy as a detector for liquid chromatography. <i>Analytical Chemistry</i> , 2003 , 75, 3086-91	7.8	71
170	Photon counting histogram: one-photon excitation. <i>ChemPhysChem</i> , 2004 , 5, 1523-31	3.2	71
169	Hadamard Transform Time-of-Flight Mass Spectrometry. <i>Analytical Chemistry</i> , 1998 , 70, 3735-3741	7.8	71
168	Quantitative determination of H ₂ , HD, and D ₂ internal-state distributions by (2+1) resonance-enhanced multiphoton ionization. <i>Journal of Chemical Physics</i> , 1991 , 95, 214-225	3.9	71
167	Complete description of two-photon (1+1) ionization of NO deduced from rotationally resolved photoelectron angular distributions. <i>Journal of Chemical Physics</i> , 1991 , 95, 1757-1767	3.9	71
166	Direct monitoring of absorption in solution by cavity ring-down spectroscopy. <i>Analytical Chemistry</i> , 2002 , 74, 1741-3	7.8	70
165	Improved end-column conductivity detector for capillary zone electrophoresis. <i>Analytical Chemistry</i> , 1991 , 63, 2193-2196	7.8	70
164	Use of an on-column frit in capillary zone electrophoresis: sample collection. <i>Analytical Chemistry</i> , 1990 , 62, 443-446	7.8	69
163	Depolarization of optically prepared molecules by two randomly oriented spins. <i>Molecular Physics</i> , 1985 , 55, 1-9	1.7	69
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	Automated capillary electrochromatography: reliability and reproducibility studies. <i>Journal of Chromatography A</i> , 1996 , 725, 361-6	4.5	68
160	Chemiluminescence detection in capillary electrophoresis. <i>Journal of High Resolution Chromatography</i> , 1992 , 15, 133-135		67
159	Complete description of molecular photoionization from circular dichroism of rotationally resolved photoelectron angular distributions. <i>Physical Review Letters</i> , 1992 , 68, 3527-3530	7.4	66
158	Effect of reagent rotation on product energy disposal in the light atom transfer reaction O(3P)+HCl(v=2,J=1,6,9)->OH(v[N])+Cl(2P). <i>Journal of Chemical Physics</i> , 1991 , 94, 2704-2712	3.9	65
157	A reinterpretation of the mechanism of the simplest reaction at an sp ³ -hybridized carbon atom: H + CD ₄ -> CD ₃ + HD. <i>Journal of the American Chemical Society</i> , 2005 , 127, 11898-9	16.4	63
156	Measurement of relative state-to-state rate constants for the reaction D+H ₂ (v, j)->HD(v[j])+H. <i>Journal of Chemical Physics</i> , 1992 , 97, 7323-7341	3.9	63

155	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
154	Effects of C-H stretch excitation on the H+CH ₄ reaction. <i>Journal of Chemical Physics</i> , 2005 , 123, 134301	3.9	62
153	Molecular-orbital decomposition of the ionization continuum for a diatomic molecule by angle- and energy-resolved photoelectron spectroscopy. I. Formalism. <i>Journal of Chemical Physics</i> , 1996 , 104, 4554-4567	3.9	62
152	Polypyrrole nanoparticles for tunable, pH-sensitive and sustained drug release. <i>Nanoscale</i> , 2015 , 7, 9497-504	7.7	61
151	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
150	Rotationally state-selected HBR ⁺ : Preparation and characterization. <i>Chemical Physics Letters</i> , 1989 , 159, 399-405	2.5	61
149	Subfemtomole quantitation of molecular adsorbates by two-step laser mass spectrometry. <i>Journal of the American Chemical Society</i> , 1987 , 109, 2842-2843	16.4	61
148	Disagreement between theory and experiment in the simplest chemical reaction: collision energy dependent rotational distributions for H + D ₂ → HD(<i>nu'</i> = 3, <i>j'</i>) + D. <i>Journal of Chemical Physics</i> , 2004 , 120, 3244-54	3.9	60
147	The H+D ₂ reaction: Quantum-state distributions at collision energies of 1.3 and 0.55 eV. <i>Journal of Chemical Physics</i> , 1989 , 91, 7514-7529	3.9	59
146	Comparing Laser Desorption/Laser Ionization Mass Spectra of Asphaltenes and Model Compounds. <i>Energy & Fuels</i> , 2010 , 24, 3589-3594	4.1	58
145	Functional immobilization of a ligand-activated G-protein-coupled receptor. <i>ChemBioChem</i> , 2002 , 3, 993-88	3.8	57
144	Correlation Effects in Complex Spectra. I. Term Energies for the Magnesium Isoelectronic Sequence. <i>Journal of Chemical Physics</i> , 1966 , 45, 1966-1978	3.9	57
143	Temperature-responsive enzyme-polymer nanoconjugates with enhanced catalytic activities in organic media. <i>Chemical Communications</i> , 2013 , 49, 6090-2	5.8	56
142	Differential cross section polarization moments: Location of the D-atom transfer in the transition-state region for the reactions Cl+C ₂ D ₆ →DCl(<i>v</i> ?=0, <i>J</i> ?=1)+C ₂ D ₅ and Cl+CD ₄ →DCl(<i>v</i> ?=0, <i>J</i> ?=1)+CD ₃ . <i>Journal of Chemical Physics</i> , 1997 , 107, 9392-9405	3.9	56
141	Functional protein-organic/inorganic hybrid nanomaterials. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2013 , 5, 320-8	9.2	54
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	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
138	The H+para-H ₂ reaction: Influence of dynamical resonances on H ₂ (<i>v</i> = 1, <i>j</i> = 1 and 3) integral cross sections. <i>Journal of Chemical Physics</i> , 1991 , 94, 1069-1080	3.9	53

137	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
136	D+H ₂ (v=1, J=1): Rovibronic state to rovibronic state reaction dynamics. <i>Journal of Chemical Physics</i> , 1990 , 92, 2107-2109	3.9	52
135	Measurement of the state-specific differential cross section for the H+D ₂ ->HD(v=4, J=3)+D reaction at a collision energy of 2.2 eV. <i>Journal of Chemical Physics</i> , 1995 , 103, 5157-5160	3.9	51
134	Electrically controlled release of insulin using polypyrrole nanoparticles. <i>Nanoscale</i> , 2017 , 9, 143-149	7.7	50
133	Comparing reactions of H and Cl with C-H stretch-excited CHD ₃ . <i>Journal of Chemical Physics</i> , 2006 , 124, 034311	3.9	50
132	H + CD ₄ abstraction reaction dynamics: excitation function and angular distributions. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 677-86	2.8	50
131	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
130	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
129	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
128	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
127	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
126	Nanoaggregates of Diverse Asphaltenes by Mass Spectrometry and Molecular Dynamics. <i>Energy & Fuels</i> , 2017 , 31, 9140-9151	4.1	48
125	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
124	Vibrational excitation through tug-of-war inelastic collisions. <i>Nature</i> , 2008 , 454, 88-91	50.4	48
123	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
122	Analysis of biomolecular interactions using a miniaturized surface plasmon resonance sensor. <i>Analytical Chemistry</i> , 2002 , 74, 4570-6	7.8	48
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