Kenneth G Mckendrick

List of Publications by Year
in descending order

98 papers	2,459 citations	186265 28 h-index	265206 42 g-index
104 all docs	104 docs citations	104 times ranked	976 citing authors

#	Article	IF	Citations
1	Stereodynamics of rotational energy transfer in NO(A²Î£⁺) + Kr collisions. Physical Chemistry Chemical Physics, 2022, 24, 6525-6534.	2.8	1
2	Surface Structure of Alkyl/Fluoroalkylimidazolium Ionicâ€“Liquid Mixtures. Journal of Physical Chemistry B, 2022, 126, 1962-1979.	2.6	8
3	Inelastic Scattering of CN Radicals at the Gasâ€“Liquid Interface Probed by Frequency-Modulated Absorption Spectroscopy. Journal of Physical Chemistry C, 2020, 124, 16439-16448.	3.1	5
4	Real-space laser-induced fluorescence imaging applied to gas-liquid interfacial scattering. Journal of Chemical Physics, 2019, 151, .	3.0	5
5	Probing Conformational Heterogeneity at the Ionic Liquidâ€“Vacuum Interface by Reactive-Atom Scattering. Journal of Physical Chemistry Letters, 2019, 10, 156-163.	4.6	11
6	10.1063/1.5110517.1. , 2019, , .		0
7	10.1063/1.5110517.2. , 2019, , .		0
8	Determining the composition of the vacuumâ€“liquid interface in ionic-liquid mixtures. Faraday Discussions, 2018, 206, 497-522.	3.2	23
9	Collision-Energy Dependence of the Uptake of Hydroxyl Radicals at Atmospherically Relevant Liquid Surfaces. Journal of Physical Chemistry C, 2018, 122, 6648-6660.	3.1	8
10	Non-intuitive rotational reorientation in collisions of NO(A 2Î£+) with Ne from direct measurement of a four-vector correlation. Nature Chemistry, 2018, 10, 1148-1153.	13.6	23
11	Pair-correlated stereodynamics for diatom-diatom rotational energy transfer: NO(A2Î£+) + N2. Journal of Chemical Physics, 2017, 147, 013912.	3.0	15
12	Nanosegregation and Structuring in the Bulk and at the Surface of Ionic-Liquid Mixtures. Journal of Physical Chemistry B, 2017, 121, 6002-6020.	2.6	82
13	Hiding the Headgroup? Remarkable Similarity in Alkyl Coverage of the Surfaces of Pyrrolidinium- and Imidazolium-Based Ionic Liquids. Journal of Physical Chemistry C, 2016, 120, 27369-27379.	3.1	15
14	Experimental testing ofab initiopotential energy surfaces: Stereodynamics of NO(A2Î£+) + Ne inelastic scattering at multiple collision energies. Journal of Chemical Physics, 2016, 145, 174304.	3.0	11
15	Comparative stereodynamics in molecule-atom and molecule-molecule rotational energy transfer: NO(A2Î£+) + He and D2. Journal of Chemical Physics, 2016, 145, 084312.	3.0	14
16	Atomic and Molecular Collisions at Liquid Surfaces. Annual Review of Physical Chemistry, 2016, 67, 515-540.	10.8	31
17	Reactive-Atom Scattering from Liquid Crystals at the Liquidâ€“Vacuum Interface: [C₁₂mim][BF₄] and 4-Cyano-4â€²-Octylbiphenyl (8CB). Langmuir, 2016, 32, 9938-9949.	3.5	9
18	Scattering Dynamics of Oxygen Atoms on Imidazolium Tetrafluoroborate Ionic Liquid Surfaces: Dependence on Alkyl Chain Length. Journal of Physical Chemistry C, 2016, 120, 12472-12483.	3.1	21

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19	Rotationally inelastic scattering of NO(A2Î£+) + Ar: Differential cross sections and rotational angular momentum polarization. Journal of Chemical Physics, 2015, 143, 204301.	3.0	17
20	Ionic Liquidâ€“Vacuum Interfaces Probed by Reactive Atom Scattering: Influence of Alkyl Chain Length and Anion Volume. Journal of Physical Chemistry C, 2015, 119, 5491-5505.	3.1	43
21	Site and bond-specific dynamics of reactions at the gasâ€“liquid interface. Physical Chemistry Chemical Physics, 2014, 16, 173-183.	2.8	16
22	Complete State-Resolved Non-Adiabatic Dynamics of the O(³P) + D₂ â†' OD(X²Î) + D Reaction. Journal of the American Chemical Society, 2014, 136, 12371-12384.	13.7	12
23	Parity-Dependent Rotational Energy Transfer in CN(A2Î, Î½ = 4, j F1Îµ) + N2, O2, and CO2 Collisions. Journal of Physical Chemistry A, 2014, 118, 2007-2017.	2.5	4
24	Rotational Alignment of NO (A²Î£⁺) from Collisions with Ne. Journal of Physical Chemistry A, 2013, 117, 8163-8174.	2.5	23
25	Inelastic scattering of OH radicals from organic liquids: isolating the thermal desorption channel. Physical Chemistry Chemical Physics, 2013, 15, 12852.	2.8	13
26	Product-state-resolved dynamics of the elementary reaction of atomic oxygen with molecular hydrogen, O(3P)Â+ÂD2Âà†'ÂOD(X2Î)Â+ÂD. Nature Chemistry, 2013, 5, 315-319.	13.6	22
27	Parity-dependent oscillations in collisional polarization transfer: CN(A2Î, v = 4) + Ar. Journal of Chemical Physics, 2013, 139, 124304.	3.0	7
28	Collisions of electronically excited molecules: differential cross-sections for rotationally inelastic scattering of NO(A²Î£⁺) with Ar and He. Molecular Physics, 2012, 110, 1693-1703.	1.7	23
29	Inelastic scattering of hydroxyl radicals with helium and argon by velocity-map imaging. Nature Chemistry, 2012, 4, 985-989.	13.6	29
30	Depolarization of rotational angular momentum in CN(A2Î, v = 4) + Ar collisions. Journal of Chemical Physics, 2012, 136, 164306.	3.0	8
31	Collisional depolarisation of rotational angular momentum: influence of the potential energy surface on the collision dynamics?. International Reviews in Physical Chemistry, 2012, 31, 69-109.	2.3	27
32	Collision dynamics and reactive uptake of OH radicals at liquid surfaces of atmospheric interest. Physical Chemistry Chemical Physics, 2011, 13, 8457.	2.8	37
33	Dynamics of the Gasâ^'Liquid Interfacial Reaction of O(1D) with a Liquid Hydrocarbon. Journal of Physical Chemistry A, 2011, 115, 7210-7219.	2.5	9
34	Reactive Scattering as a Chemically Specific Analytical Probe of Liquid Surfaces. Journal of Physical Chemistry Letters, 2011, 2, 12-18.	4.6	25
35	Communication: Direct angle-resolved measurements of collision dynamics with electronically excited molecules: NO(A2Î£+) + Ar. Journal of Chemical Physics, 2011, 134, 091101.	3.0	20
36	Rotationally elastic and inelastic dynamics of NO(X2Î, v = 0) in collisions with Ar. Journal of Chemical Physics, 2011, 135, 234304.	3.0	15

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37	Collisional depolarization of rotational angular momentum: what are the observables and how can they be measured?. Molecular Physics, 2011, 109, 2565-2585.	1.7	17
38	Inelastic and Reactive Scattering Dynamics of Hyperthermal Oxygen Atoms on Ionic Liquid Surfaces: [emim][NTf[sub 2]] and [C[sub 12]mim][NTf[sub 2]]. , 2011, , .		0
39	Elastic depolarization and polarization transfer in CN(A²Î,v= 4)+Ar collisions. Molecular Physics, 2010, 108, 847-863.	1.7	14
40	O(³P) Atoms as a Probe of Surface Ordering in 1-Alkyl-3-methylimidazolium-Based Ionic Liquids. Journal of Physical Chemistry Letters, 2010, 1, 429-433.	4.6	36
41	Scattering Dynamics of Hyperthermal Oxygen Atoms on Ionic Liquid Surfaces: [emim][NTf₂] and [C₁₂mim][NTf₂]. Journal of Physical Chemistry C, 2010, 114, 4015-4027.	3.1	49
42	O(³P) Atoms as a Chemical Probe of Surface Ordering in Ionic Liquids. Journal of Physical Chemistry A, 2010, 114, 4896-4904.	2.5	45
43	How Penetrable Are Thioalkyl Self-Assembled Monolayers?. Journal of Physical Chemistry Letters, 2010, 1, 1917-1921.	4.6	29
44	Depolarization of rotational angular momentum in open-shell collisions: OH+rare gases. Physica Scripta, 2009, 80, 048111.	2.5	6
45	Nanosecond pulse width dependence of nonphotochemical laser-induced nucleation of potassium chloride. Chemical Physics Letters, 2009, 481, 25-28.	2.6	28
46	Depolarisation of rotational orientation and alignment in OH (X2Î) + Xe collisions. Physical Chemistry Chemical Physics, 2009, 11, 8804.	2.8	20
47	Depolarisation of rotational orientation and alignment of OH (X2Î) in collisions with molecular partners: N2 and O2. Physical Chemistry Chemical Physics, 2009, 11, 8813.	2.8	16
48	Dynamics of the Reaction of O(³P) Atoms with Alkylthiol Self-assembled Monolayers. Journal of Physical Chemistry A, 2009, 113, 4320-4329.	2.5	27
49	Elastic Depolarization of OH(A) by He and Ar: A Comparative Study. Journal of Physical Chemistry A, 2009, 113, 15156-15170.	2.5	26
50	Do vectors point the way to understanding energy transfer in molecular collisions?. Chemical Society Reviews, 2008, 37, 732.	38.1	52
51	Influence of Molecular and Supramolecular Structure on the Gasâ^'Liquid Interfacial Reactivity of Hydrocarbon Liquids with O(³P) Atoms. Journal of Physical Chemistry C, 2008, 112, 1524-1532.	3.1	27
52	Dynamics of Inelastic Scattering of OH Radicals from Reactive and Inert Liquid Surfaces. Journal of Physical Chemistry C, 2008, 112, 10868-10877.	3.1	74
53	Rotational angular momentum polarization: The influence of stray magnetic fields. Journal of Chemical Physics, 2008, 128, 021101.	3.0	26
54	Orientation and alignment depolarization in OH(Xâ€‰Î2)+Ar/He collisions. Journal of Chemical Physics, 2008, 129, 074304.	3.0	53

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55	Dynamics of interfacial reactions between O(³P) atoms and long-chain liquid hydrocarbons. Physica Scripta, 2007, 76, C42-C47.	2.5	23
56	Differential scattering cross-sections for CNA2Î+Ar. Journal of Chemical Physics, 2007, 126, 041103.	3.0	20
57	Inelastic scattering of OH(Xâ€‰2Î) with Ar and He: a combined polarization spectroscopy and quantum scattering study. Physical Chemistry Chemical Physics, 2007, 9, 4414.	2.8	41
58	The effects of energy-level resonance on collision-induced electronic energy transfer: CD (AÂ2Î" â†" BÂ2Î£âˆ') coupling. Physical Chemistry Chemical Physics, 2007, 9, 1568-1578.	2.8	0
59	Temperature Dependence of OH Yield, Translational Energy, and Vibrational Branching in the Reaction of O(³P)(g) with Liquid Squalane. Journal of Physical Chemistry C, 2007, 111, 14833-14842.	3.1	34
60	Efficiencies of state and velocity-changing collisions of superthermal CN A2Î with He, Ar, N2and O2. Physical Chemistry Chemical Physics, 2007, 9, 747-754.	2.8	17
61	Direct Gasâˆ'Liquid Interfacial Dynamics:Â The Reaction between O(3P) and a Liquid Hydrocarbon. Journal of Physical Chemistry B, 2006, 110, 2771-2776.	2.6	45
62	Molecular Dynamics Study to Identify the Reactive Sites of a Liquid Squalane Surface. Journal of Physical Chemistry B, 2006, 110, 11717-11724.	2.6	41
63	Frequency modulated spectroscopy as a probe of molecular collision dynamics. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2006, 63, 910-922.	3.9	17
64	The effects of surface temperature on the gas-liquid interfacial reaction dynamics of O(3P)+squalane. Journal of Chemical Physics, 2005, 122, 024712.	3.0	45
65	Orientation and alignment moments in two-color polarization spectroscopy. Journal of Chemical Physics, 2005, 122, 164309.	3.0	33
66	Collision-Partner Dependence of Energy Transfer between the CH A2Î" and B2Î£-States. Journal of Physical Chemistry A, 2005, 109, 542-553.	2.5	15
67	Measurement of orientation and alignment moment relaxation by polarization spectroscopy: Theory and experiment. Journal of Chemical Physics, 2004, 120, 7910-7926.	3.0	39
68	Dynamics of the gasâ€"liquid interfacial reaction of O(3P) atoms with hydrocarbons. Journal of Chemical Physics, 2003, 119, 9985-9988.	3.0	51
69	Effect of collisions on one-color polarization spectroscopy of OH Aâ€Š2Î£+â€"Xâ€Š2Î. Journal of Chemical Physics, 2003, 119, 9461-9468.	3.0	33
70	The dynamics of O(3P)â€‰+â€‰deuterated hydrocarbons: influences on product rotation and fine-structure state partitioning. Physical Chemistry Chemical Physics, 2002, 4, 473-481.	2.8	24
71	Rotational energy transfer in collisions of CH A2Î", vâ€‰=â€‰0 with Ar, N2and CO2. Physical Chemistry Chemical Physics, 2002, 4, 5768-5777.	2.8	9
72	The Dynamics of Reactions of O(³P) Atoms with Saturated Hydrocarbons and Related Compounds. Progress in Reaction Kinetics and Mechanism, 2000, 25, 299-370.	2.1	64

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73	Rotational-state resolved coupling of CH A 2Î" and B 2Î£- in collisions with CO2. Physical Chemistry Chemical Physics, 2000, 2, 5553-5559.	2.8	9
74	State-specific collisional coupling of the CH A 2Î" and B 2Î£- states. Physical Chemistry Chemical Physics, 2000, 2, 461-471.	2.8	27
75	Polarisation effects in electronically inelastic collisions: SiFC2Î"+H2â†'SiFBâ€ˆ+H2. Chemical Physics, 1998, 233, 45-55.	1.9	9
76	What determines the disposal of energy in the products of electronically inelastic collisions? A comparative case study of SiCl and SiF. Journal of the Chemical Society, Faraday Transactions, 1998, 94, 1921-1932.	1.7	19
77	Rotational State-Specific Dynamics of SiF C2Î"â^'B2Î£+ Collision-Induced Transfer. Journal of Physical Chemistry A, 1998, 102, 51-59.	2.5	10
78	Rotational and spin-orbit effects in the dynamics of O(3Pj)+hydrocarbon reactions. II. Models for spin-orbit propensities. Journal of Chemical Physics, 1997, 106, 9182-9189.	3.0	44
79	Rotational and spin-orbit effects in the dynamics of O(3Pj)+hydrocarbon reactions. I. Experimental results. Journal of Chemical Physics, 1997, 106, 9172-9181.	3.0	91
80	Quantitative Laser-Induced Fluorescence Spectroscopy of the CF A2Î£+â^'X2Î Transition:Â Electronic Transition Dipole Moment Function and Predissociation. The Journal of Physical Chemistry, 1996, 100, 47-53.	2.9	28
81	Large rotational energy release in collision-induced SiF C2Î"-B2Î£+ valence-Rydberg transfer. Chemical Physics Letters, 1995, 243, 564-570.	2.6	4
82	State-specific collisional energy transfer in electronically excited SiF radicals: dramatic contrasts with SiCl. Chemical Physics, 1994, 187, 79-86.	1.9	7
83	Vibrational transition probabilities in the B-X and C-X systems of the SiF radical. Chemical Physics, 1994, 187, 87-95.	1.9	15
84	Phosphorus-31 NMR investigation of the comparative hydrolytic breakdown of nickel(II) and cadmium(II)versus zinc(II) bis(O,O-diethyl dithiophosphates) in an aqueous medium. Journal of the Chemical Society Perkin Transactions II, 1994, , 373.	0.9	6
85	Velocity-averaging effects on polarisation measurements in hot atom reactions. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 1527.	1.7	15
86	Rate constants for the de-excitation of the bending vibrational levels of NCO(X) by helium, neon, argon, krypton and xenon. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 405.	1.7	14
87	State-to-state collisional energy transfer in electronically excited silicon monochloride radicals. The Journal of Physical Chemistry, 1993, 97, 1389-1399.	2.9	10
88	Vibrational transition probabilities in the B-X and B'-X systems of the chlorosilylidyne radical. The Journal of Physical Chemistry, 1992, 96, 9703-9709.	2.9	8
89	Superthermal widths of the collision energy distributions in hot atom reactions. The Journal of Physical Chemistry, 1991, 95, 8205-8207.	2.9	115
90	Velocity-averaging effects in beam-gas dynamics experiments. The Journal of Physical Chemistry, 1991, 95, 8255-8263.	2.9	7

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91	Comparison of the Ca+HF(DF) and Sr+HF(DF) reaction dynamics. Journal of Chemical Physics, 1988, 89, 6283-6294.	3.0	47
92	Intramolecular rearrangement in the infrared multiple-photon dissociation of dichlorodifluoroethylene. The Journal of Physical Chemistry, 1988, 92, 1839-1846.	2.9	7
93	Dynamics of the reaction atomic oxygen(3P) + hydrogen bromide: experimental investigation and theoretical modeling. The Journal of Physical Chemistry, 1988, 92, 5530-5540.	2.9	60
94	Rovibronic state to rovibronic state reaction dynamics: O(3P)+HCl(v=2,J)â†'OH(vâ€², Nâ€²)+Cl(2P). Journal of Chemical Physics, 1987, 87, 7341-7342.	3.0	64
95	Laser-induced fluorescence and vibrational relaxation of the phenyl nitrene radical. Journal of the Chemical Society, Faraday Transactions 2, 1987, 83, 2011.	1.1	8
96	Product state distributions from the reaction O(3 P)+ HBr. Faraday Discussions of the Chemical Society, 1987, 84, 39.	2.2	28
97	Vibrational relaxation of NCO(Xìf) by rare gases, and rate constant measurement of the NCO + NO reaction. Chemical Physics Letters, 1986, 127, 125-129.	2.6	30
98	Reactions of CHF (Xìf ¹A') and NCO (Xìf ²Î) Radicals. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1985, 89, 335-336.	0.9	35