

Erhard W Rothe

List of Publications by Citations

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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.

86
papers

2,671
citations

31
h-index

49
g-index

88
ext. papers

2,720
ext. citations

3.2
avg, IF

4
L-index

#	Paper	IF	Citations
86	Nuclear and electron dynamics in the photodissociation of water. <i>Journal of Chemical Physics</i> , 1984 , 80, 2548-2569	3.9	253
85	Total Collision Cross Sections for the Interaction of Atomic Beams of Alkali Metals with Gases. <i>Journal of Chemical Physics</i> , 1959 , 31, 1619-1627	3.9	225
84	Velocity Dependence of the Total Cross Section for the Scattering of Metastable He(3S1) by Helium, Argon, and Krypton. <i>Journal of Chemical Physics</i> , 1965 , 42, 3310-3314	3.9	126
83	Merging Beams, A Different Approach to Collision Cross Section Measurements. <i>Review of Scientific Instruments</i> , 1966 , 37, 1655-1661	1.7	104
82	Analysis of chemical dynamics via π -doubling: Directed lobes in product molecules and transition states. <i>Journal of Chemical Physics</i> , 1985 , 82, 3634-3640	3.9	103
81	Electron Impact Ionization of Atomic Hydrogen and Atomic Oxygen. <i>Physical Review</i> , 1962 , 125, 582-583		103
80	Strong propensity rules in the photodissociation of a single rotational quantum state of vibrationally excited H ₂ O. <i>Journal of Chemical Physics</i> , 1985 , 83, 1429-1430	3.9	74
79	Low-Energy Electron Scattering from Atomic Nitrogen. <i>Physical Review</i> , 1963 , 129, 2069-2071		66
78	Slotted-Disk Velocity Selector of Extended Range. <i>Review of Scientific Instruments</i> , 1962 , 33, 841-843	1.7	58
77	Electron Impact Ionization of Atomic Nitrogen. <i>Physical Review</i> , 1962 , 127, 1647-1649		58
76	Measurement of electron affinities of O ₃ , SO ₂ , and SO ₃ by collisional ionization. <i>Journal of Chemical Physics</i> , 1975 , 62, 3829	3.9	54
75	Total Collision Cross Sections for the Interaction of Molecular Beams of Cesium Chloride with Gases. Influence of the Dipole-Dipole Force upon the Scattering. <i>Journal of Chemical Physics</i> , 1960 , 33, 584-590	3.9	54
74	Scattering of Low-Energy Electrons by Atomic Hydrogen. <i>Physical Review</i> , 1961 , 124, 135-136		52
73	Glory Scattering of Lithium by a Series of Molecules. I. Diatomics. <i>Journal of Chemical Physics</i> , 1968 , 48, 3945-3955	3.9	49
72	Observation of polarization of atomic fluorescence excited by laser-induced dissociation of Na ₂ . <i>Chemical Physics Letters</i> , 1980 , 72, 100-103	2.5	48
71	Avoiding Erroneous Submicron Pressure Readings: A Refrigerated McLeod. <i>Journal of Vacuum Science and Technology</i> , 1964 , 1, 66-68		46
70	Measurements of Absolute Total Cross Sections for Rare-Gas Scattering. <i>Journal of Chemical Physics</i> , 1965 , 43, 4177-4179	3.9	42

69	Ionization reactions of metal hexafluorides with alkali atoms and dimers. <i>Journal of Chemical Physics</i> , 1977 , 67, 377-381	3.9	41
68	Polarized LIF spectroscopy of OH formed by the photodissociation of H ₂ O by polarized 157 nm light. <i>Journal of Chemical Physics</i> , 1983 , 78, 989-990	3.9	40
67	Two-photon ionization of Li ₂ : isotopic separation and determination of IP(Li ₂) and De(Li ₂). <i>Chemical Physics Letters</i> , 1978 , 56, 336-338	2.5	40
66	Time-resolved emission spectra following the 193-nm photoablation of CuO, BaO ₂ , Y ₂ O ₃ , and YBa ₂ Cu ₃ O _{7-x} in vacuum and oxygen. <i>Journal of Applied Physics</i> , 1991 , 70, 2337-2342	2.5	39
65	Emission spectra from ArF laser ablation of high T _c superconductor Bi ₂ CaSr ₂ Cu ₂ O ₉ . <i>Applied Physics Letters</i> , 1988 , 53, 2698-2700	3.4	39
64	Isotope fractionation in two-step photoionization of Li ₂ . <i>Chemical Physics Letters</i> , 1978 , 53, 74-78	2.5	39
63	Collisional ionization of Cs with SF ₆ . <i>Journal of Chemical Physics</i> , 1974 , 61, 4929-4930	3.9	36
62	Atomic-Beam Measurements of van der Waals Forces. <i>Journal of Chemical Physics</i> , 1965 , 42, 3306-3309	3.9	36
61	Measurement of boron trihalide electron affinities: correlation with boron-nitrogen adduct strengths. <i>Inorganic Chemistry</i> , 1980 , 19, 829-831	5.1	33
60	Interaction Potentials from the Velocity Dependence of Total Atom-Atom Scattering Cross Sections. <i>Physical Review</i> , 1963 , 130, 2333-2338		33
59	Velocity Dependence of the Total Cross Section for the Scattering of Li and K by Xe. <i>Physical Review</i> , 1962 , 128, 659-662		32
58	Symmetric-Resonance Charge Transfer in Ar from 0.1-20 eV Using Merging Beams. <i>Physical Review</i> , 1967 , 157, 101-102		32
57	Negative ion formation in halocarbons by charge exchange with cesium. <i>Journal of Chemical Physics</i> , 1976 , 64, 1270-1275	3.9	31
56	Negative ions from phosphorus halides due to cesium charge exchange. <i>Journal of Chemical Physics</i> , 1976 , 65, 565-569	3.9	31
55	Scattering of Thermal Rare Gas Beams by Argon. Influence of the Long-Range Dispersion Forces. <i>Physical Review</i> , 1962 , 126, 598-602		30
54	Negative ion formation from energetic collisions of cesium with CO ₂ , CS ₂ , and COS. <i>Journal of Chemical Physics</i> , 1974 , 61, 2592-2595	3.9	29
53	Measurement of the electron affinity of NO ₂ . <i>Journal of Chemical Physics</i> , 1973 , 58, 5801-5806	3.9	29
52	Chemi-ionization reactions of alkali dimers with halogen molecules. <i>Journal of Chemical Physics</i> , 1977 , 66, 3847-3853	3.9	28

51	Ionizing collisions of cesium with Cl ₂ , Br ₂ , and I ₂ . <i>Journal of Chemical Physics</i> , 1975 , 62, 132	3.9	27
50	A cesium impact source for negative-ion mass spectra. <i>International Journal of Mass Spectrometry and Ion Physics</i> , 1974 , 14, 79-88		27
49	Photodissociation of Na ₂ and Rb ₂ : Analysis of atomic fine structure of 2P products. <i>Journal of Chemical Physics</i> , 1980 , 72, 5145-5150	3.9	26
48	The yttrium oxide chemiluminescence from the 308 nm excimer laser ablation of YBa ₂ Cu ₃ O _{7-x} , Y ₂ O ₃ , and YCl ₃ . <i>Journal of Applied Physics</i> , 1993 , 73, 7810-7817	2.5	23
47	Negative gaseous ions from nitric acid. <i>Journal of Chemical Physics</i> , 1976 , 64, 1247-1248	3.9	21
46	Velocity Dependence of the Total Cross Section for Atom-Atom Scattering at Thermal Energies. <i>Physical Review Letters</i> , 1962 , 9, 494-495	7.4	20
45	Resonance-enhanced multiphoton ionization of vibrationally excited state-selected NH ₃ . Spectroscopy and collisional state transfer. <i>Chemical Physics Letters</i> , 1988 , 146, 89-95	2.5	19
44	Glory Scattering of Lithium by a Series of Molecules. II. Fluorocarbons and Hydrocarbons. <i>Journal of Chemical Physics</i> , 1969 , 50, 3531-3538	3.9	19
43	Two-step photoionization of Na ₂ : dependence on alignment. <i>Chemical Physics Letters</i> , 1981 , 78, 16-20	2.5	18
42	Photoablation of polymers at 193 nm: Shot-to-shot study of emission spectra, etch depths, and transmission. <i>Journal of Applied Physics</i> , 1989 , 66, 1370-1374	2.5	17
41	Nanobumps on silicon created with polystyrene spheres and 248 or 308nm laser pulses. <i>Applied Physics Letters</i> , 2006 , 89, 223113	3.4	16
40	Laser photodissociation of H ₂ O at 157 nm: rotational energy distribution in product OH(X ² II). <i>Chemical Physics Letters</i> , 1982 , 86, 270-274	2.5	16
39	Alkali-Alkali Glory Scattering in the 3S State. <i>Journal of Chemical Physics</i> , 1968 , 49, 4750-4755	3.9	16
38	Anion production from Cs + CF ₃ X: evidence for stripping. <i>Chemical Physics Letters</i> , 1974 , 26, 434-436	2.5	16
37	Glory Extrema in Total Cross Sections: LiH. <i>Journal of Chemical Physics</i> , 1967 , 46, 1209-1210	3.9	16
36	Two-photon ionization of Na ₂ by an Ar ⁺ laser. <i>Journal of Chemical Physics</i> , 1978 , 68, 2518-2519	3.9	15
35	Effect of electronic alignment upon the reaction 2Na(2P _{3/2})→Na. <i>Physical Review A</i> , 1985 , 31, 1362-1365	3.5	13
34	Internal state populations and the time-of-flight of ground-state species ejected after the 193 nm excimer laser ablation of CuO, BaO ₂ , and Y ₂ O ₃ . <i>Journal of Applied Physics</i> , 1994 , 75, 522-528	2.5	12

33	Scattering of Lithium by a Series of Molecules. IV. Miscellaneous Molecules. <i>Journal of Chemical Physics</i> , 1970 , 53, 2501-2505	3.9	12
32	Systematic Error in Beam Gas Experiments: The Electron Affinity of Br ₂ . <i>Journal of Chemical Physics</i> , 1971 , 54, 4520-4522	3.9	12
31	A Time-of-Flight Chemical Accelerator for Low Center-of-Mass Energy Spreads. <i>Review of Scientific Instruments</i> , 1972 , 43, 917-925	1.7	12
30	The effects of the electric field associated with a laser-induced pulsed discharge on the ablation-generated plumes of YBa ₂ Cu ₃ O _{7-x} . <i>Journal of Applied Physics</i> , 1992 , 72, 1113-1125	2.5	11
29	High-sensitivity, state-specific detection of H ₂ by three-photon direct ionization in gases and discharges. <i>Optics Communications</i> , 1986 , 58, 113-117	2	11
28	Substantiation of a Method for Obtaining Interatomic Potential Energy Parameters. <i>Journal of Chemical Physics</i> , 1963 , 39, 493-494	3.9	11
27	Influence of electrical resonance on the interpretation of optogalvanic data. <i>Journal of Applied Physics</i> , 1987 , 61, 109-112	2.5	9
26	Chemi-ionization in thermal energy collisions of K ₂ and Cs ₂ with halogen molecules. <i>Journal of Chemical Physics</i> , 1976 , 65, 2912-2913	3.9	9
25	Collisional ionization of cesium: Relaxation of product fragments. <i>Journal of Chemical Physics</i> , 1974 , 60, 4096-4097	3.9	9
24	Large mirage effect in supercritical CO ₂ . <i>Journal of Supercritical Fluids</i> , 2000 , 18, 193-200	4.2	8
23	Negative ions from reactions of alkalis with SnCl ₄ , GeCl ₄ and TiCl ₄ . <i>International Journal of Mass Spectrometry and Ion Physics</i> , 1979 , 31, 77-84		8
22	Near-threshold ionization of excited Na(3 ² P) by collisions with O ₂ and SO ₂ . <i>Chemical Physics Letters</i> , 1977 , 51, 71-74	2.5	8
21	Imaging of the Fluorescence Created by Ablation of Y ₂ O ₃ , BaO ₂ , CuO, and YBa ₂ Cu ₃ O _{7-x} by 308-nm Laser Light. <i>Applied Spectroscopy</i> , 1993 , 47, 1046-1057	3.1	7
20	Absorption of laser light in air in the 193 nm range: Analysis of laser locking. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1990 , 44, 373-378	2.1	7
19	One-dimensional imaging of H ₂ densities and of temperatures via rotational Raman scattering of narrow-band, 248 nm, laser light. <i>Journal of Raman Spectroscopy</i> , 1997 , 28, 605-612	2.3	6
18	Laser-Induced Fluorescence of CF ₂ from a CH ₄ Flame and an H ₂ Flame with Addition of HCFC-22 and HFC-134a. <i>Combustion and Flame</i> , 1998 , 113, 236-241	5.3	6
17	Collision-induced dissociation of aligned ions. <i>Chemical Physics Letters</i> , 1981 , 81, 175-178	2.5	6
16	Rayleigh Scattering of Excimer Laser Light from Some Simple Molecules at 193 nm and 248 nm: The Effect of Polarization upon Imaging Diagnostics. <i>Applied Spectroscopy</i> , 1997 , 51, 1012-1016	3.1	5

15	Superior mirage effect in supercritical CO ₂ : Experiment and model. <i>Journal of Supercritical Fluids</i> , 2005 , 35, 260-264	4.2	5
14	Ionization reactions of halogens and metal polyhalides with alkali atoms and dimers: Absolute cross sections. <i>Journal of Chemical Physics</i> , 1980 , 73, 1280-1285	3.9	5
13	YO A2II1/2,3/2 Vibrational State Distributions Measured after the Excimer Laser Ablation of Y2O3 Using a Laser-Initiated Pulsed Discharge as a Probe. <i>Applied Spectroscopy</i> , 1994 , 48, 248-251	3.1	4
12	Graphitization of synthetic diamond by 193 nm laser light: Comparison of ¹² C-enriched diamonds with those of natural isotopic composition. <i>Diamond and Related Materials</i> , 1994 , 3, 195-197	3.5	4
11	Molecular beam reaction Na ₃ +SF ₆ . A triple electron-jump mechanism. <i>Journal of Chemical Physics</i> , 1982 , 76, 5650-5651	3.9	4
10	Organic nanostructures on silicon, created with semitransparent polystyrene spheres and 248nm laser pulses. <i>Nanotechnology</i> , 2008 , 19, 165301	3.4	3
9	Crossed beam study of Na*(2P3/2)+O ₂ ->Na++O ₂ The dependence of the total cross section upon Na* alignment. <i>Journal of Chemical Physics</i> , 1988 , 88, 5981-5982	3.9	2
8	Measurement of the Liβγ Total Cross Section at Very Low Energies. <i>Journal of Chemical Physics</i> , 1967 , 46, 4549-4550	3.9	2
7	Ultra-rapid cooling of aluminum: Homogeneous solidification to anisotropic nanocrystals. <i>AIP Advances</i> , 2020 , 10, 045319	1.5	1
6	Determination of Concentrations of Solutes in Gaseous, Liquid, and Supercritical Co ₂ by Means of UV Raman Spectroscopy. <i>Chemical Engineering Communications</i> , 2005 , 192, 581-596	2.2	1
5	One-dimensional imaging of H ₂ densities and of temperatures via rotational Raman scattering of narrow-band, 248 nm, laser light 1997 , 28, 605		1
4	Resonance enhanced multiphoton ionization (2+1) in NH ₃ using linearly and circularly polarized light. <i>Chemical Physics</i> , 1988 , 126, 145-150	2.3	
3	Optogalvanic OH (A ← X) spectrum. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1988 , 39, 339-340	2.1	
2	Comment on: Polarized absorption spectroscopy of lambda-doublet molecules: Transition moment vs electron density distribution. <i>Journal of Chemical Physics</i> , 1988 , 89, 5965-5966	3.9	
1	Comments on "Size dependence of the lattice parameters of carbon supported platinum nanoparticles: X-ray diffraction analysis and theoretical considerations," , 2014, , 35959-35965.. <i>RSC Advances</i> , 2022 , 12, 7584-7586	3.7	