## Erhard W Rothe

List of Publications by Year in descending order

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147566 174990 2,870 87 31 h-index citations papers

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#	Article	IF	CITATIONS
1	Comments on $\hat{a} \in \infty$ Size dependence of the lattice parameters of carbon supported platinum nanoparticles: X-ray diffraction analysis and theoretical considerations, $\hat{a} \in \text{NSC Adv.}/ i\rangle$ , 2014, $\text{NSC Adv.}/ i\rangle$ , 35959 $\hat{a} \in \text{NSC Advances}$ , 2022, 12, 7584-7586.	1.7	4
2	Ultra-rapid cooling of aluminum: Homogeneous solidification to anisotropic nanocrystals. AIP Advances, 2020, 10, 045319.	0.6	3
3	Organic nanostructures on silicon, created with semitransparent polystyrene spheres and 248 nm laser pulses. Nanotechnology, 2008, 19, 165301.	1.3	4
4	Nanobumps on silicon created with polystyrene spheres and 248 or 308nm laser pulses. Applied Physics Letters, 2006, 89, 223113.	1.5	18
5	Superior mirage effect in supercritical CO2: Experiment and model. Journal of Supercritical Fluids, 2005, 35, 260-264.	1.6	5
6	Determination of Concentrations of Solutes in Gaseous, Liquid, and Supercritical Co2by Means of UV Raman Spectroscopy. Chemical Engineering Communications, 2005, 192, 581-596.	1.5	1
7	Large mirage effect in supercritical CO2. Journal of Supercritical Fluids, 2000, 18, 193-200.	1.6	9
8	Laser-Induced Fluorescence of CF2 from a CH4 Flame and an H2 Flame with Addition of HCFC-22 and HFC-134a. Combustion and Flame, 1998, 113, 236-241.	2.8	6
9	Rayleigh Scattering of Excimer Laser Light from Some Simple Molecules at 193 nm and 248 nm: The Effect of Polarization upon Imaging Diagnostics. Applied Spectroscopy, 1997, 51, 1012-1016.	1.2	5
10	One-dimensional imaging of H2 densities and of temperatures via rotational Raman scattering of narrow-band, 248 nm, laser light. Journal of Raman Spectroscopy, 1997, 28, 605-612.	1.2	6
11	Oneâ€dimensional imaging of H2 densities and of temperatures via rotational Raman scattering of narrowâ€band, 248 nm, laser light. Journal of Raman Spectroscopy, 1997, 28, 605-612.	1.2	1
12	Internal state populations and the timeâ€ofâ€flight of groundâ€state species ejected after the 193 nm excimer laser ablation of CuO, BaO2, and Y2O3. Journal of Applied Physics, 1994, 75, 522-528.	1.1	12
13	YO <i>A<sup>2</sup></i> II <sub>1/2,3/2</sub> Vibrational State Distributions Measured after the Excimer Laser Ablation of Y <sub>2</sub> O <sub>3</sub> Using a Laser-Initiated Pulsed Discharge as a Probe. Applied Spectroscopy, 1994, 48, 248-251.	1.2	4
14	Graphitization of synthetic diamond by 193 nm laser light: Comparison of 12C-enriched diamonds with those of natural isotopic composition. Diamond and Related Materials, 1994, 3, 195-197.	1.8	4
15	Imaging of the Fluorescence Created by Ablation of Y2O3, BaO2, CuO, and YBa2Cu3O7–x by 308-nm Laser Light. Applied Spectroscopy, 1993, 47, 1046-1057.	1.2	7
16	The yttrium oxide chemiluminescence from the 308 nm excimer laser ablation of YBa2Cu3O7â^'X, Y2O3, and YCl3. Journal of Applied Physics, 1993, 73, 7810-7817.	1,1	27
17	The effects of the electric field associated with a laserâ€induced pulsed discharge on the ablationâ€generated plumes of YBa2Cu3O7â^'X. Journal of Applied Physics, 1992, 72, 1113-1125.	1.1	11
18	Timeâ€resolved emission spectra following the 193â€nm photoablation of CuO, BaO2, Y2O3, and YBa2Cu3O7â°'xin vacuum and oxygen. Journal of Applied Physics, 1991, 70, 2337-2342.	1.1	41

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19	Absorption of laser light in air in the 193 nm range: Analysis of laser locking. Journal of Quantitative Spectroscopy and Radiative Transfer, 1990, 44, 373-378.	1.1	7
20	Photoablation of polymers at 193 nm: Shotâ€toâ€shot study of emission spectra, etch depths, and transmission. Journal of Applied Physics, 1989, 66, 1370-1374.	1.1	17
21	Resonance-enhanced multiphoton ionization of vibrationally excited state-selected NH3. Spectroscopy and collisional state transfer. Chemical Physics Letters, 1988, 146, 89-95.	1.2	20
22	Resonance enhanced multiphoton ionization (2+1) in NH3 using linearly and circularly polarized light. Chemical Physics, 1988, 126, 145-150.	0.9	0
23	Optogalvanic OH (A ↕X) spectrum. Journal of Quantitative Spectroscopy and Radiative Transfer, 1988, 39, 339-340.	1.1	0
24	Crossed beam study of Na*(2P3/2)+O2â†'Na++O2â^'. The dependence of the total cross section upon Na* alignment. Journal of Chemical Physics, 1988, 88, 5981-5982.	1.2	2
25	Emission spectra from ArF laser ablation of highTcsuperconductor Bi2CaSr2Cu2O9. Applied Physics Letters, 1988, 53, 2698-2700.	1.5	41
26	Comment on: Polarized absorption spectroscopy of lambdaâ€doublet molecules: Transition moment vs electron density distribution. Journal of Chemical Physics, 1988, 89, 5965-5966.	1.2	0
27	Influence of electrical resonance on the interpretation of optogalvanic data. Journal of Applied Physics, 1987, 61, 109-112.	1.1	9
28	High-sensitivity, state-specific detection of H2 by three-photon direct ionization in gases and discharges. Optics Communications, 1986, 58, 113-117.	1.0	11
29	Effect of electronic alignment upon the reaction2Na(2P3/2)â†'Na2++eâ^'. Physical Review A, 1985, 31, 1362-1365.	1.0	14
30	Strong propensity rules in the photodissociation of a single rotational quantum state of vibrationally excited H2O. Journal of Chemical Physics, 1985, 83, 1429-1430.	1.2	78
31	Analysis of chemical dynamics via $\hat{\mathfrak{b}}$ doubling: Directed lobes in product molecules and transition states. Journal of Chemical Physics, 1985, 82, 3634-3640.	1.2	107
32	Nuclear and electron dynamics in the photodissociation of water. Journal of Chemical Physics, 1984, 80, 2548-2569.	1.2	263
33	Polarized LIF spectroscopy of OH formed by the photodissociation of H2O by polarized 157 nm light. Journal of Chemical Physics, 1983, 78, 989-990.	1.2	40
34	Molecular beam reaction Na3+SF6. A triple electronâ€jump mechanism. Journal of Chemical Physics, 1982, 76, 5650-5651.	1.2	4
35	Laser photodissociation of H2O at 157 nm: rotational energy distribution in product OH(X2II). Chemical Physics Letters, 1982, 86, 270-274.	1.2	16
36	Collision-induced dissociation of aligned ions. Chemical Physics Letters, 1981, 81, 175-178.	1.2	6

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37	Two-step photoionization of Na2: dependence on alignment. Chemical Physics Letters, 1981, 78, 16-20.	1.2	20
38	Observation of polarization of atomic fluorescence excited by laser-induced dissociation of Na2. Chemical Physics Letters, 1980, 72, 100-103.	1.2	52
39	Ionization reactions of halogens and metal polyhalides with alkali atoms and dimers: Absolute cross sections. Journal of Chemical Physics, 1980, 73, 1280-1285.	1.2	5
40	Photodissociation of Na2and Rb2: Analysis of atomic fine structure of 2P products. Journal of Chemical Physics, 1980, 72, 5145-5150.	1.2	28
41	Measurement of boron trihalide electron affinities: correlation with boron-nitrogen adduct strengths. Inorganic Chemistry, 1980, 19, 829-831.	1.9	34
42	Negative ions from reactions of alkalis with SnCl4, GeCl4 and TiCl4. International Journal of Mass Spectrometry and Ion Physics, 1979, 31, 77-84.	1.3	10
43	Two-photon ionization of Li2: isotopic separation and determination of IP(Li2) and De(Li+2). Chemical Physics Letters, 1978, 56, 336-338.	1.2	43
44	Isotope fractionation in two-step photoionization of Li2. Chemical Physics Letters, 1978, 53, 74-78.	1,2	44
45	Twoâ€photon ionization of Na2 by an Ar+ laser. Journal of Chemical Physics, 1978, 68, 2518-2519.	1.2	16
46	lonization reactions of metal hexafluorides with alkali atoms and dimers. Journal of Chemical Physics, 1977, 67, 377-381.	1.2	42
47	Chemiâ€ionization reactions of alkali dimers with halogen molecules. Journal of Chemical Physics, 1977, 66, 3847-3853.	1.2	28
48	Near-threshold ionization of excited Na(32P) by collisions with O2 and SO2. Chemical Physics Letters, 1977, 51, 71-74.	1,2	8
49	Negative gaseous ions from nitric acid. Journal of Chemical Physics, 1976, 64, 1247-1248.	1.2	21
50	Negative ion formation in halocarbons by charge exchange with cesium. Journal of Chemical Physics, 1976, 64, 1270-1275.	1.2	31
51	Negative ions from phosphorus halides due to cesium charge exchange. Journal of Chemical Physics, 1976, 65, 565-569.	1.2	32
52	Chemiâ€ionization in thermal energy collisions of K2and Cs2with halogen molecules. Journal of Chemical Physics, 1976, 65, 2912-2913.	1.2	9
53	Ionizing collisions of cesium with Cl2, Br2, and I2. Journal of Chemical Physics, 1975, 62, 132.	1.2	27
54	Measurement of electron affinities of O3, SO2, and SO3 by collisional ionization. Journal of Chemical Physics, 1975, 62, 3829.	1.2	60

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55	Collisional ionization of cesium: Relaxation of product fragments. Journal of Chemical Physics, 1974, 60, 4096-4097.	1.2	10
56	Collisional ionization of Cs with SF6. Journal of Chemical Physics, 1974, 61, 4929-4930.	1.2	40
57	Anion production from Cs + CF3X: evidence for stripping. Chemical Physics Letters, 1974, 26, 434-436.	1.2	16
58	A cesium impact source for negative-ion mass spectra. International Journal of Mass Spectrometry and Ion Physics, 1974, 14, 79-88.	1.3	29
59	Negative ion formation from energetic collisions of cesium with CO2, CS2, and COS. Journal of Chemical Physics, 1974, 61, 2592-2595.	1.2	32
60	Measurement of the electron affinity of NO2. Journal of Chemical Physics, 1973, 58, 5801-5806.	1.2	35
61	A Timeâ€ofâ€Flight Chemical Accelerator for Low Centerâ€ofâ€Mass Energy Spreads. Review of Scientific Instruments, 1972, 43, 917-925.	0.6	15
62	Systematic Error in Beam–Gas Experiments: The Electron Affinity of Br2. Journal of Chemical Physics, 1971, 54, 4520-4522.	1.2	14
63	Scattering of Lithium by a Series of Molecules. IV. Miscellaneous Molecules. Journal of Chemical Physics, 1970, 53, 2501-2505.	1.2	12
64	Glory Scattering of Lithium by a Series of Molecules. II. Fluorocarbons and Hydrocarbons. Journal of Chemical Physics, 1969, 50, 3531-3538.	1.2	20
65	Alkali–Alkali Glory Scattering in the 3Σ State. Journal of Chemical Physics, 1968, 49, 4750-4755.	1.2	16
66	Glory Scattering of Lithium by a Series of Molecules. I. Diatomics. Journal of Chemical Physics, 1968, 48, 3945-3955.	1.2	54
67	Trujillo and confluent beams. Physics Today, 1968, 21, 18-18.	0.3	0
68	Symmetric-Resonance Charge Transfer in Ar from 0.1-20 eV Using Merging Beams. Physical Review, 1967, 157, 101-102.	2.7	35
69	Glory Extrema in Total Cross Sections: Li–Hg. Journal of Chemical Physics, 1967, 46, 1209-1210.	1.2	19
70	Measurement of the Li–Hg Total Cross Section at Very Low Energies. Journal of Chemical Physics, 1967, 46, 4549-4550.	1.2	2
71	Merging Beams, A Different Approach to Collision Cross Section Measurements. Review of Scientific Instruments, 1966, 37, 1655-1661.	0.6	105
72	Velocity Dependence of the Total Cross Section for the Scattering of Metastable He(3S1) by Helium, Argon, and Krypton. Journal of Chemical Physics, 1965, 42, 3310-3314.	1.2	132

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73	Measurements of Absolute Total Cross Sections for Rareâ€Gas Scattering. Journal of Chemical Physics, 1965, 43, 4177-4179.	1.2	50
74	Atomicâ€Beam Measurements of van der Waals Forces. Journal of Chemical Physics, 1965, 42, 3306-3309.	1.2	42
75	Avoiding Erroneous Submicron Pressure Readings: A Refrigerated McLeod. Journal of Vacuum Science and Technology, 1964, 1, 66-68.	1.9	47
76	Low-Energy Electron Scattering from Atomic Nitrogen. Physical Review, 1963, 129, 2069-2071.	2.7	74
77	Substantiation of a Method for Obtaining Interatomic Potential Energy Parameters. Journal of Chemical Physics, 1963, 39, 493-494.	1.2	15
78	Interaction Potentials from the Velocity Dependence of Total Atom-Atom Scattering Cross Sections. Physical Review, 1963, 130, 2333-2338.	2.7	41
79	Velocity Dependence of the Total Cross Section for Atom-Atom Scattering at Thermal Energies. Physical Review Letters, 1962, 9, 494-495.	2.9	22
80	Velocity Dependence of the Total Cross Section for the Scattering of Li and K by Xe. Physical Review, 1962, 128, 659-662.	2.7	39
81	Scattering of Thermal Rare Gas Beams by Argon. Influence of the Long-Range Dispersion Forces. Physical Review, 1962, 126, 598-602.	2.7	37
82	Slottedâ€Disk Velocity Selector of Extended Range. Review of Scientific Instruments, 1962, 33, 841-843.	0.6	59
83	Electron Impact Ionization of Atomic Hydrogen and Atomic Oxygen. Physical Review, 1962, 125, 582-583.	2.7	110
84	Electron Impact Ionization of Atomic Nitrogen. Physical Review, 1962, 127, 1647-1649.	2.7	70
85	Scattering of Low-Energy Electrons by Atomic Hydrogen. Physical Review, 1961, 124, 135-136.	2.7	60
86	Total Collision Cross Sections for the Interaction of Molecular Beams of Cesium Chloride with Gases. Influence of the Dipoleâ€Dipole Force upon the Scattering. Journal of Chemical Physics, 1960, 33, 584-590.	1.2	54
87	Total Collision Cross Sections for the Interaction of Atomic Beams of Alkali Metals with Gases. Journal of Chemical Physics, 1959, 31, 1619-1627.	1.2	239