David M Silver

List of Publications by Year
in descending order

107 papers	4,193 citations	94433 37 h-index	114465 63 g-index
114 all docs	114 docs citations	114 times ranked	1682 citing authors

#	Article	IF	Citations
1	In vivo corneal confocal microscopy and optical coherence tomography on eyes of participants with type 2 diabetes mellitus and obese participants without diabetes. Graefe's Archive for Clinical and Experimental Ophthalmology, 2021, 259, 3339-3350.	1.9	2
2	Plasminogen activator activity in tears of pregnant women. PLoS ONE, 2017, 12, e0177003.	2.5	4
3	Urokinase Down-Regulation by Aprotinin in Rabbit Corneal Cells After Photorefractive Keratectomy. Current Eye Research, 2010, 35, 806-811.	1.5	1
4	Iris Cross-sectional Area Decreases With Pupil Dilation and its Dynamic Behavior is a Risk Factor in Angle Closure. Journal of Glaucoma, 2009, 18, 173-179.	1.6	172
5	Plasminogen activator inhibitor in human tears after laser refractive surgery. Journal of Cataract and Refractive Surgery, 2008, 34, 897-901.	1.5	17
6	Urokinase-Type Plasminogen Activator to Prevent Haze after Photorefractive Keratectomy, and Pregnancy as a Risk Factor for Haze in Rabbits. Investigative Ophthalmology and Visual Science, 2004, 45, 1329-1333.	3.3	11
7	The 8-year report on MSX thermal blanket outgassing: an inexhaustible reservoir. , 2004, , .		1
8	Aqueous Flow through the Iris???Lens Channel: Estimates of Differential Pressure between the Anterior and Posterior Chambers. Journal of Glaucoma, 2004, 13, 100-107.	1.6	62
9	Plasminogen activator activity and inhibition in rabbit tears after photorefractive keratectomy. Experimental Eye Research, 2003, 77, 675-680.	2.6	12
10	Gender and Age Effects on Pulsatile Ocular Blood Flow. Ophthalmic Research, 2003, 35, 247-250.	1.9	20
11	Timing of Changes in Interstitial and Venous Blood Glucose Measured With a Continuous Subcutaneous Glucose Sensor. Diabetes, 2003, 52, 2790-2794.	0.6	346
12	Acute effect of latanoprost on pulsatile ocular blood flow in normal eyes. American Journal of Ophthalmology, 2001, 131, 198-202.	3.3	37
13	Pressure-volume relation for the living human eye. Current Eye Research, 2000, 20, 115-120.	1.5	139
14	Pressure-volume relation for the living human eye. Current Eye Research, 2000, 20, 115-120.	1.5	14
15	Particle environment surrounding the Midcourse Space Experiment spacecraft. Journal of Spacecraft and Rockets, 1999, 36, 561-565.	1.9	3
16	Pulsatile ocular blood flow in diabetic retinopathy. Acta Ophthalmologica, 1999, 77, 522-525.	0.3	62
17	Midcourse Space Experiment Contamination Measurement During Cryogen Phase. Journal of Spacecraft and Rockets, 1998, 35, 170-176.	1.9	5
18	<title>MSX spacecraft contamination control methodology and results</title>. , 1998, , .		0

#	Article	IF	Citations
19	<title>Discrete particle release observed on the Midcourse Space Experiment satellite</title>. , 1998, , .		0
20	<title>Ambient pressure environment surrounding the MSX spacecraft during the first year on orbit</title>. , 1998, , .		0
21	<title>Contamination lessons learned from the Midcourse Space Experiment</title>. , 1998, 3427, 28.		2
22	QCM flight measurements of contaminant films and their effect on midcourse space experiment (MSX) satellite optics. , 1997, 3124, 34.		2
23	Effect of the polar auroral regions on the midcourse space experiment cold cathode pressure sensor. , 1997, , .		0
24	Midcourse Space Experiment contamination modeling. , 1996, , .		9
25	<title>Total pressure sensor results from the early operations phase of the MSX mission</title>. , 1996, 2864, 138.		7
26	Validity of pulsatile ocular blood flow measurements. Survey of Ophthalmology, 1994, 38, S72-S80.	4.0	93
27	<title>Outgassing issues and measurement protocols for spacecraft coatings</title>. , 1994, , .		4
28	Quantum field theoretical methods in chemically bonded systems. V. Potential energy curves for N2(X1?g+) ? 2N (4S). International Journal of Quantum Chemistry, 1993, 48, 467-478.	2.0	7
29	<title>Electromagnetic interaction of spacecraft with ambient environment</title>. , 1993, , .		0
30	<title>Modeling of spacecraft contamination outgassing as a diffusion controlled process</title>. , 1992, 1754, 37.		2
31	Quantum field theoretical methods in chemically bonded systems II. Theoretica Chimica Acta, 1992, 84, 1-19.	0.8	15
32	Quantum field theoretical methods in chemically bonded systems III. Theoretica Chimica Acta, 1992, 84, 21-35.	0.8	10
33	Quantum field theoretical methods in chemically bonded systems IV. Theoretica Chimica Acta, 1992, 84, 37-53.	0.8	8
34	Quantum field theoretical methods in chemically bonded systems. Journal of Physics B: Atomic, Molecular and Optical Physics, 1989, 22, L539-L545.	1.5	16
35	Reactions of Carbonaceous Smoke Particles with Atmospheric Ozone. Aerosol Science and Technology, 1989, 10, 332-336.	3.1	4
36	Blood flow in the human eye. Acta Ophthalmologica, 1989, 67, 9-13.	1.1	119

#	Article	IF	Citations
37	Estimation of pulsatile ocular blood flow from intraocular pressure. Acta Ophthalmologica, 1989, 67, 25-29.	1.1	114
38	LoSurdo-Stark effect for a hydrogenic impurity in a thin layer: Two-dimensional model. Physical Review B, 1987, 35, 2513-2516.	3.2	22
39	Lewis structures and Feynman diagrams: The treatment of geminal correlation in Fock space. International Journal of Quantum Chemistry, 1986, 30, 81-94.	2.0	4
40	Nondegenerate manyâ€body theory and the treatment of conservation principles. Journal of Chemical Physics, 1986, 85, 5847-5849.	3.0	8
41	Rotationally inelastic collisions of LiH with He: Quasiclassical dynamics of atomâ€rigid rotor trajectories. Journal of Chemical Physics, 1984, 81, 1682-1691.	3.0	4
42	A fieldâ€theoretic model Hamiltonian for the proper dissociation of multiple bonds. Journal of Chemical Physics, 1984, 81, 4546-4548.	3.0	14
43	Diagrammatic perturbation theory: An application to the LiH and FH molecules using a universal evenâ€tempered basis set. Journal of Chemical Physics, 1982, 77, 3674-3675.	3.0	31
44	Special invariance properties of [N +1/ N] PadÃ© approximants in Rayleigh-SchrÃ¶dinger perturbation theory II. Molecular interaction energies. Proceedings of the Royal Society of London Series A, Mathematical and Physical Sciences, 1982, 383, 477-483.	1.4	8
45	A qualitative analysis of individual trajectories in the rotationally inelastic LiHî—¸He collision system. Chemical Physics Letters, 1982, 93, 247-252.	2.6	1
46	On the lowâ€lying states of MgO. II. Journal of Chemical Physics, 1981, 74, 2379-2383.	3.0	32
47	Temperature dependence of the reaction rate for H+CF3Br. Journal of Chemical Physics, 1981, 74, 1745-1749.	3.0	5
48	Rotationally inelastic collisions of LiH with He. I.Abinitiopotential energy surface. Journal of Chemical Physics, 1980, 72, 6445-6451.	3.0	39
49	Chemistry Computer Center. Science, 1980, 210, 716-719.	12.6	0
50	Valence bond model potential energy surface for H4. Journal of Chemical Physics, 1980, 72, 3859-3868.	3.0	11
51	Interaction energy between two ground-state helium atoms using many-body perturbation theory. Physical Review A, 1980, 21, 1106-1117.	2.5	16
52	An SCF and MCSCF description of the lowâ€lying states of MgO. Journal of Chemical Physics, 1980, 73, 2867-2870.	3.0	29
53	Comparison of reactive and inelastic scattering of H2+D2 using four semiempirical potential energy surfaces. Journal of Chemical Physics, 1980, 72, 3869-3879.	3.0	10
54	Diagrammatic perturbation theory: An application to the nitrogen, carbon monoxide, and boron fluoride molecules using a universal evenâ€tempered basis set. Journal of Chemical Physics, 1980, 72, 2159-2165.	3.0	62

#	Article	IF	Citations
55	Comparison within the algebraic approximation of configuration interaction and many-body perturbation theory for the Be ground state. Physical Review A, 1979, 19, 1375-1382.	2.5	34
56	Universal basis sets in molecular calculations. Chemical Physics Letters, 1979, 63, 367-369.	2.6	41
57	Diagrammatic many-body perturbation expansion for atoms and molecules: IV. Fourth-order linked diagrams involving quadruply-excited states. Computer Physics Communications, 1979, 17, 47-50.	7.5	29
58	Fourth-Order terms in the diagrammatic perturbation expansion for the electronic energy of atoms and molecules. International Journal of Quantum Chemistry, 1979, 15, 683-692.	2.0	49
59	On the contribution of higher-order excitations to correlation energies: The ground state of the water molecule. Theoretica Chimica Acta, 1979, 54, 83-91.	0.8	25
60	On the contribution of higher-order excitations to correlation energies: The ground state of the water molecule. Theoretica Chimica Acta, 1979, 54, 83-91.	0.8	0
61	Universal basis sets and transferability of integrals. International Journal of Quantum Chemistry, 1978, 14, 635-639.	2.0	81
62	Universal atomic basis sets. Chemical Physics Letters, 1978, 57, 421-422.	2.6	88
63	Diagrammatic many-body perturbation expansion for atoms and molecules: II. Second-order and third-order ladder energies. Computer Physics Communications, 1978, 14, 81-89.	7.5	51
64	Diagrammatic perturbation theory: evaluation of fourth-order energy terms involving quadruply-excited states for closed-shell systems. Molecular Physics, 1978, 36, 1539-1548.	1.7	38
65	Diagrammatic many-body perturbation expansion for atoms and molecules: I. general organization. Computer Physics Communications, 1978, 14, 71-79.	7.5	68
66	Piecewise polynomial basis functions for configuration interaction and manyâ€body perturbation theory calculations. The radial limit of helium. Journal of Chemical Physics, 1978, 68, 616-618.	3.0	21
67	Universal basis sets for electronic structure calculations. Journal of Chemical Physics, 1978, 69, 3787-3789.	3.0	55
68	Reactive and inelastic scattering of H2+D2 using a repulsive model potential energy surface. Journal of Chemical Physics, 1978, 68, 3607-3617.	3.0	8
69	Diagrammatic perturbation theory: N2Xâ€‰1Î£+g. Journal of Chemical Physics, 1977, 67, 1689-1696.	3.0	31
70	Modified potentials in many-body perturbation theory: Three-body and four-body contributions. Physical Review A, 1977, 16, 477-483.	2.5	36
71	Diagrammatic perturbation theory: Manyâ€body effects in the X1Î£+ states of firstâ€row and secondâ€row diatomic hydrides. Journal of Chemical Physics, 1977, 66, 5400-5411.	3.0	62
72	Diagrammatic perturbation theory applied to the ground state of the water molecule. Journal of Chemical Physics, 1977, 67, 5552-5557.	3.0	12

#	Article	IF	Citations
73	Many-body effects in the X1Ïƒ+states of the hydrogen fluoride, lithium fluoride and boron fluoride molecules. Molecular Physics, 1977, 33, 1177-1193.	1.7	43
74	Special invariance properties of the [N +1/ N] PadÃ© approximants in Rayleigh-SchrÃ¶dinger perturbation theory. Proceedings of the Royal Society of London Series A, Mathematical and Physical Sciences, 1977, 356, 363-374.	1.4	82
75	Third-order many-body perturbation theory for the ground state of the carbon monoxide molecule. International Journal of Quantum Chemistry, 1977, 12, 737-757.	2.0	21
76	Modified potentials in many-body perturbation theory. Physical Review A, 1976, 13, 1-12.	2.5	61
77	Manyâ€body perturbation theory applied to electron pair correlation energies. II. Closedâ€shell secondâ€row diatomic hydrides. Journal of Chemical Physics, 1976, 64, 4578-4586.	3.0	43
78	Reactive and inelastic scattering of H2+D2 using a Londonâ€type potential energy surface. Journal of Chemical Physics, 1976, 65, 311-326.	3.0	17
79	Algebraic approximation in many-body perturbation theory. Physical Review A, 1976, 14, 1949-1960.	2.5	164
80	Numerical Infinite-Order Perturbation Theory. , 1976, , 393-408.		7
81	Manyâ€body perturbation theory applied to electron pair correlation energies. I. Closedâ€shell firstâ€row diatomic hydrides. Journal of Chemical Physics, 1975, 62, 3258-3268.	3.0	354
82	Reaction path properties at critical points on potential surfaces. Journal of Chemical Physics, 1975, 62, 4050-4052.	3.0	30
83	Valence-bond approach to conservation of symmetry in concerted reactions. Journal of the American Chemical Society, 1975, 97, 2645-2654.	13.7	20
84	Some aspects of diagrammatic perturbation theory. International Journal of Quantum Chemistry, 1975, 9, 183-198.	2.0	95
85	Pair-correlation energies in sodium hydride with many-body perturbation theory. Physical Review A, 1974, 10, 1927-1931.	2.5	61
86	Many-body perturbation theory applied to hydrogen fluoride. Chemical Physics Letters, 1974, 29, 199-203.	2.6	49
87	Hierarchy of symmetry conservation rules governing chemical reaction systems. Journal of the American Chemical Society, 1974, 96, 5959-5967.	13.7	55
88	Correlation energy in LiH, BH, and HF with many-body perturbation theory using slater-type atomic orbitals. International Journal of Quantum Chemistry, 1974, 8, 271-276.	2.0	35
89	Reaction paths on the H4 potential energy surface. Journal of Chemical Physics, 1973, 59, 3378-3394.	3.0	67
90	Character of the Leastâ€Energy Trajectory near the Saddleâ€Point on H3 Potential Surfaces. Journal of Chemical Physics, 1972, 57, 586-587.	3.0	15

#	Article	IF	Citations
91	Reaction paths for bimolecular hydrogen exchange. Chemical Physics Letters, 1972, 14, 105-107.	2.6	6
92	Unified Treatment of Diatomic Electron Interaction Integrals over Slaterâ€type Atomic Orbitals. Journal of Mathematical Physics, 1971, 12, 1937-1943.	1.1	20
93	Gaussian expansions for polyatomic molecules. Molecular Physics, 1971, 22, 1069-1080.	1.7	12
94	Poisson equation for molecular exchange, hybrid and coulomb electron repulsion integrals. International Journal of Quantum Chemistry, 1971, 5, 505-512.	2.0	0
95	Metric evaluation in the space of exponential and gaussian functions. Chemical Physics Letters, 1971, 10, 227-229.	2.6	7
96	Electron Pair Correlation: Products of N(Nâ€‰â^'â€‰1)â€‰/â€‰2 Geminals for N Electrons. Journal of Chemical Physics, 1971, 55, 1461-1467.	3.0	13
97	Energy integrals involving both Slater-type and Gaussian atomic orbitals. Journal De Physique, 1971, 32, 129-133.	1.8	14
98	Basis sets of gaussian and Slater-type atomic orbitals. Chemical Physics Letters, 1970, 7, 511-516.	2.6	13
99	Electron Correlation and Separated Pair Approximation in Diatomic Molecules. III. Imidogen. Journal of Chemical Physics, 1970, 52, 1206-1227.	3.0	59
100	Electron Correlation and Separated Pair Approximation in Diatomic Molecules. II. Lithium Hydride and Boron Hydride. Journal of Chemical Physics, 1970, 52, 1181-1205.	3.0	86
101	Electron Correlation and Separated Pair Approximation in Diatomic Molecules. I. Theory. Journal of Chemical Physics, 1970, 52, 1174-1180.	3.0	72
102	Bilinear Orbital Expansion of Geminalâ€Product Correlated Wavefunctions. Journal of Chemical Physics, 1970, 52, 299-303.	3.0	42
103	Natural Orbital Expansion of Interacting Geminals. Journal of Chemical Physics, 1969, 50, 5108-5116.	3.0	64
104	Coulomb Integrals over Slaterâ€Type Atomic Orbitals. Journal of Chemical Physics, 1968, 49, 4306-4311.	3.0	35
105	Overlap Integrals over Slaterâ€Type Atomic Orbitals. Journal of Chemical Physics, 1968, 49, 4301-4305.	3.0	41
106	Overlap as a Criterion for Conduction in the Cubic Tungsten Bronzes. Journal of Chemical Physics, 1967, 46, 4288-4291.	3.0	3
107	Quenching of NO2 Fluorescence. Journal of Chemical Physics, 1966, 44, 718-723.	3.0	96