

Herbert H H Homeier

List of Publications by Year in descending order

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45
papers

1,898
citations

304602

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46
all docs

46
docs citations

46
times ranked

1424
citing authors

#	ARTICLE	IF	CITATIONS
1	Cu(I) complexes with Thermally activated delayed fluorescence. Photophysical approach and material design. Coordination Chemistry Reviews, 2016, 325, 2-28.	9.5	416
2	Organometallic Pt(II) and Ir(III) Triplet Emitters for OLED Applications and the Role of Spin-Orbit Coupling: A Study Based on High-Resolution Optical Spectroscopy. Topics in Organometallic Chemistry, 2010, , 193-235.	0.7	201
3	On Newton-type methods with cubic convergence. Journal of Computational and Applied Mathematics, 2005, 176, 425-432.	1.1	176
4	A modified Newton method with cubic convergence: the multivariate case. Journal of Computational and Applied Mathematics, 2004, 169, 161-169.	1.1	120
5	A modified Newton method for rootfinding with cubic convergence. Journal of Computational and Applied Mathematics, 2003, 157, 227-230.	1.1	77
6	Some properties of the coupling coefficients of real spherical harmonics and their relation to Gaunt coefficients. Computational and Theoretical Chemistry, 1996, 368, 31-37.	1.5	67
7	Improved quadrature methods for three-center nuclear attraction integrals with exponential-type basis functions. International Journal of Quantum Chemistry, 1991, 39, 625-645.	1.0	55
8	Improved quadrature methods for the Fourier transform of a two-center product of exponential-type basis functions. International Journal of Quantum Chemistry, 1992, 41, 399-411.	1.0	53
9	Symmetry-Based Design Strategy for Unprecedentedly Fast Decaying Thermally Activated Delayed Fluorescence (TADF). Application to Dinuclear Cu(I) Compounds. Chemistry of Materials, 2019, 31, 4392-4404.	3.2	51
10	Scalar Levin-type sequence transformations. Journal of Computational and Applied Mathematics, 2000, 122, 81-147.	1.1	49
11	Numerical integration of functions with a sharp peak at or near one boundary using Möbius transformations. Journal of Computational Physics, 1990, 87, 61-72.	1.9	47
12	On the evaluation of overlap integrals with exponential-type basis functions. International Journal of Quantum Chemistry, 1992, 42, 761-778.	1.0	45
13	Möbius-Type quadrature of electron repulsion integrals with B functions. International Journal of Quantum Chemistry, 1990, 38, 349-363.	1.0	37
14	Programs for the evaluation of overlap integrals with B functions. Computer Physics Communications, 1992, 72, 269-287.	3.0	36
15	Design of Conformationally Distorted Donor-Acceptor Dyads Showing Efficient Thermally Activated Delayed Fluorescence. Journal of Physical Chemistry Letters, 2018, 9, 3692-3697.	2.1	36
16	Some applications of nonlinear convergence accelerators. International Journal of Quantum Chemistry, 1993, 45, 545-562.	1.0	35
17	Spin-orbit coupling routes and OLED performance: studies of blue-light emitting Ir(III) and Pt(II) complexes. Proceedings of SPIE, 2007, , .	0.8	32
18	Recent progress on representations for Coulomb integrals of exponential-type orbitals. Computational and Theoretical Chemistry, 1992, 260, 207-221.	1.5	29

#	ARTICLE	IF	CITATIONS
19	On Newton-type methods for multiple roots with cubic convergence. <i>Journal of Computational and Applied Mathematics</i> , 2009, 231, 249-254.	1.1	29
20	Triplet sublevels of metal organic complexes – temperature dependence of spin–lattice relaxation. <i>Chemical Physics</i> , 2000, 255, 301-316.	0.9	28
21	An improved program for molecular calculations with B functions. <i>Computational and Theoretical Chemistry</i> , 1999, 490, 201-217.	1.5	25
22	On remainder estimates for Levin-type sequence transformations. <i>Computer Physics Communications</i> , 1995, 92, 1-10.	3.0	23
23	A hierarchically consistent, iterative sequence transformation. <i>Numerical Algorithms</i> , 1994, 8, 47-81.	1.1	22
24	Programs for the approximation of real and imaginary single- and multi-valued functions by means of Hermite–Padé approximants. <i>Computer Physics Communications</i> , 2004, 158, 124-135.	3.0	22
25	Effects of local field variations on the contrast of a field-ion microscope. <i>Journal Physics D: Applied Physics</i> , 1983, 16, L115-L120.	1.3	21
26	Programs for the evaluation of nuclear attraction integrals with B functions. <i>Computer Physics Communications</i> , 1993, 77, 135-151.	3.0	21
27	Iterative solution of the Ornstein-Zernike equation with various closures using vector extrapolation. <i>Computer Physics Communications</i> , 1995, 92, 188-202.	3.0	19
28	Simplified derivation of a one-range addition theorem of the Yukawa potential. <i>International Journal of Quantum Chemistry</i> , 1992, 44, 405-411.	1.0	17
29	A Levin-type algorithm for accelerating the convergence of Fourier series. <i>Numerical Algorithms</i> , 1992, 3, 245-254.	1.1	16
30	Analytical and numerical studies of the convergence behavior of the j transformation. <i>Journal of Computational and Applied Mathematics</i> , 1996, 69, 81-112.	1.1	16
31	Determinantal representations for the J transformation. <i>Numerische Mathematik</i> , 1995, 71, 275-288.	0.9	12
32	Calculation of multicenter electron repulsion integrals in Slater-type basis sets using the γ -separation method. <i>International Journal of Quantum Chemistry</i> , 1995, 55, 9-22.	1.0	11
33	Spin-lattice relaxation in metal-organic platinum(II) complexes. <i>Chemical Physics Letters</i> , 2000, 316, 280-284.	1.2	9
34	On the stability of the J transformation. <i>Numerical Algorithms</i> , 1998, 17, 223-239.	1.1	8
35	Correlation energy estimators based on Møller-Plesset perturbation theory. <i>Computational and Theoretical Chemistry</i> , 1996, 366, 161-171.	1.5	7
36	On the combination of two methods for the calculation of multicenter integrals using exponential-type orbitals. <i>International Journal of Quantum Chemistry</i> , 1992, 44, 45-57.	1.0	6

#	ARTICLE	IF	CITATIONS
37	Resolution and contrast in the field ion microscope. <i>Surface Science</i> , 1985, 152-153, 55-62.	0.8	4
38	Title is missing!. <i>Numerical Algorithms</i> , 1998, 18, 1-30.	1.1	4
39	On the Extrapolation of Perturbation Series. <i>Acta Applicandae Mathematicae</i> , 2000, 61, 133-147.	0.5	4
40	The size-extensivity of correlation energy estimators based on effective characteristic polynomials. <i>Computational and Theoretical Chemistry</i> , 1997, 419, 29-31.	1.5	3
41	Some weighted quadrature methods based upon the mean value theorems. <i>Mathematical Methods in the Applied Sciences</i> , 2021, 44, 3840-3856.	1.2	3
42	On convergence acceleration for the iterative solution of the inverse Dyson equation. <i>Computational and Theoretical Chemistry</i> , 1996, 368, 81-91.	1.5	2
43	Comment on: A Gaussian quadrature for the optimal evaluation of integrals involving Lorentzians over a semi-infinite interval. <i>Computer Physics Communications</i> , 1996, 99, 77-80.	3.0	2
44	Resolution and contrast in the field ion microscope. <i>Surface Science Letters</i> , 1985, 152-153, A108.	0.1	0
45	Series Prediction Based on Algebraic Approximants. <i>ISRN Applied Mathematics</i> , 2011, 2011, 1-7.	0.5	0