## James J P Stewart

## List of Publications by Year in Descending Order

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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.

30 28,323 21 30 g-index

30 29,460 3.4 7.64 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
30	An examination of the nature of localized molecular orbitals and their value in understanding various phenomena that occur in organic chemistry. <i>Journal of Molecular Modeling</i> , <b>2018</b> , 25, 7	2	8
29	An investigation into the applicability of the semiempirical method PM7 for modeling the catalytic mechanism in the enzyme chymotrypsin. <i>Journal of Molecular Modeling</i> , <b>2017</b> , 23, 154	2	22
28	A comparison of X-ray and calculated structures of the enzyme MTH1. <i>Journal of Molecular Modeling</i> , <b>2016</b> , 22, 168	2	10
27	A method for predicting individual residue contributions to enzyme specificity and binding-site energies, and its application to MTH1. <i>Journal of Molecular Modeling</i> , <b>2016</b> , 22, 259	2	8
26	Insights into colour-tuning of chlorophyll optical response in green plants. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 26599-606	3.6	37
25	Accuracy issues involved in modeling in vivo protein structures using PM7. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2015</b> , 83, 1427-35	4.2	15
24	Standards-based curation of a decade-old digital repository dataset of molecular information. Journal of Cheminformatics, <b>2015</b> , 7, 43	8.6	6
23	An approach to creating a more realistic working model from a protein data bank entry. <i>Journal of Molecular Modeling</i> , <b>2015</b> , 21, 3	2	16
22	Self-consistent field convergence for proteins: a comparison of full and localized-molecular-orbital schemes. <i>Journal of Molecular Modeling</i> , <b>2014</b> , 20, 2159	2	12
21	High-Throughput Calculations of Molecular Properties in the MedeA Environment: Accuracy of PM7 in Predicting Vibrational Frequencies, Ideal Gas Entropies, Heat Capacities, and Gibbs Free Energies of Organic Molecules. <i>Journal of Chemical &amp; Data</i> , 2014, 59, 3136-3143	2.8	21
20	Sparkle/PM7 Lanthanide Parameters for the Modeling of Complexes and Materials. <i>Journal of Chemical Theory and Computation</i> , <b>2013</b> , 9, 3333-3341	6.4	86
19	Optimization of parameters for semiempirical methods VI: more modifications to the NDDO approximations and re-optimization of parameters. <i>Journal of Molecular Modeling</i> , <b>2013</b> , 19, 1-32	2	1126
18	MNDO-Like Semiempirical Molecular Orbital Theory and Its Application to Large Systems <b>2011</b> , 259-286	5	18
17	Application of the PM6 method to modeling proteins. <i>Journal of Molecular Modeling</i> , <b>2009</b> , 15, 765-805	2	235
16	Application of the PM6 method to modeling the solid state. <i>Journal of Molecular Modeling</i> , <b>2008</b> , 14, 499-535	2	125
15	Optimization of parameters for semiempirical methods V: modification of NDDO approximations and application to 70 elements. <i>Journal of Molecular Modeling</i> , <b>2007</b> , 13, 1173-213	2	2577
14	RM1: a reparameterization of AM1 for H, C, N, O, P, S, F, Cl, Br, and I. <i>Journal of Computational Chemistry</i> , <b>2006</b> , 27, 1101-11	3.5	571

## LIST OF PUBLICATIONS

13	Use of Semiempirical Methods for Detecting Anomalies in Reported Enthalpies of Formation of Organic Compounds. <i>Journal of Physical and Chemical Reference Data</i> , <b>2004</b> , 33, 713-724	4.3	24
12	Comparison of the accuracy of semiempirical and some DFT methods for predicting heats of formation. <i>Journal of Molecular Modeling</i> , <b>2004</b> , 10, 6-12	2	95
11	Optimization of parameters for semiempirical methods IV: extension of MNDO, AM1, and PM3 to more main group elements. <i>Journal of Molecular Modeling</i> , <b>2004</b> , 10, 155-64	2	213
10	Application of localized molecular orbitals to the solution of semiempirical self-consistent field equations. <i>International Journal of Quantum Chemistry</i> , <b>1996</b> , 58, 133-146	2.1	303
9	Optimization of parameters for semiempirical methods. III Extension of PM3 to Be, Mg, Zn, Ga, Ge, As, Se, Cd, In, Sn, Sb, Te, Hg, Tl, Pb, and Bi. <i>Journal of Computational Chemistry</i> , <b>1991</b> , 12, 320-341	3.5	553
8	Optimization of parameters for semiempirical methods I. Method. <i>Journal of Computational Chemistry</i> , <b>1989</b> , 10, 209-220	3.5	6553
7	Optimization of parameters for semiempirical methods II. Applications. <i>Journal of Computational Chemistry</i> , <b>1989</b> , 10, 221-264	3.5	3335
6	X-Ray crystallographic and NMR evidence for a uniquely strong OH? N hydrogen bond in the solid state and solution. <i>Journal of the Chemical Society Chemical Communications</i> , <b>1989</b> , 1722		21
5	Calculation of polymer elastic moduli using semiempirical methods. <i>International Journal of Quantum Chemistry</i> , <b>1986</b> , 30, 529-540	2.1	19
4	Development and use of quantum mechanical molecular models. 76. AM1: a new general purpose quantum mechanical molecular model. <i>Journal of the American Chemical Society</i> , <b>1985</b> , 107, 3902-3909	16.4	12010
3	Location of transition states in reaction mechanisms. <i>Journal of the Chemical Society, Faraday Transactions 2</i> , <b>1984</b> , 80, 227		237
2	A new rapid method for orbital localisation. <i>Journal of the Chemical Society, Faraday Transactions 2</i> , <b>1982</b> , 78, 285		35
1	Cluster model for solids. <i>Journal of the Chemical Society, Faraday Transactions 2</i> , <b>1980</b> , 76, 520		32