

# Richard W Pastor

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/3570773/richard-w-pastor-publications-by-year.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

119  
papers

16,150  
citations

55  
h-index

121  
g-index

121  
ext. papers

18,544  
ext. citations

5.3  
avg, IF

6.5  
L-index

#	Paper	IF	Citations
119	Developing initial conditions for simulations of asymmetric membranes: a practical recommendation. <i>Biophysical Journal</i> , <b>2021</b> , 120, 5041-5059	2.9	2
118	Development of CHARMM Additive Potential Energy Parameters for $\beta$ Methyl Amino Acids. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 11687-11696	3.4	
117	Location and Conformational Ensemble of Menaquinone and Menaquinol, and Protein-Lipid Modulations in Archaeal Membranes. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 4714-4725	3.4	3
116	Functional Group Distributions, Partition Coefficients, and Resistance Factors in Lipid Bilayers Using Site Identification by Ligand Competitive Saturation. <i>Journal of Chemical Theory and Computation</i> , <b>2021</b> , 17, 3188-3202	6.4	4
115	CHARMM36 Lipid Force Field with Explicit Treatment of Long-Range Dispersion: Parametrization and Validation for Phosphatidylethanolamine, Phosphatidylglycerol, and Ether Lipids. <i>Journal of Chemical Theory and Computation</i> , <b>2021</b> , 17, 1581-1595	6.4	8
114	Semi-automated Optimization of the CHARMM36 Lipid Force Field to Include Explicit Treatment of Long-Range Dispersion. <i>Journal of Chemical Theory and Computation</i> , <b>2021</b> , 17, 1562-1580	6.4	6
113	Molecular Structure of Sphingomyelin in Fluid Phase Bilayers Determined by the Joint Analysis of Small-Angle Neutron and X-ray Scattering Data. <i>Journal of Physical Chemistry B</i> , <b>2020</b> , 124, 5186-5200	3.4	12
112	A dual apolipoprotein C-II mimetic-apolipoprotein C-III antagonist peptide lowers plasma triglycerides. <i>Science Translational Medicine</i> , <b>2020</b> , 12,	17.5	26
111	Characterization of Specific Ion Effects on PI(4,5)P Clustering: Molecular Dynamics Simulations and Graph-Theoretic Analysis. <i>Journal of Physical Chemistry B</i> , <b>2020</b> , 124, 1183-1196	3.4	7
110	Incorporation of $\beta$ methylated amino acids into Apolipoprotein A-I mimetic peptides improves their helicity and cholesterol efflux potential. <i>Biochemical and Biophysical Research Communications</i> , <b>2020</b> , 526, 349-354	3.4	4
109	PLD2-PI(4,5)P <sub>2</sub> interactions in fluid phase membranes: Structural modeling and molecular dynamics simulations. <i>PLoS ONE</i> , <b>2020</b> , 15, e0236201	3.7	2
108	Membrane permeability of small molecules from unbiased molecular dynamics simulations. <i>Journal of Chemical Physics</i> , <b>2020</b> , 153, 124107	3.9	15
107	Surface Shear Viscosity and Interleaflet Friction from Nonequilibrium Simulations of Lipid Bilayers. <i>Journal of Chemical Theory and Computation</i> , <b>2019</b> , 15, 6471-6481	6.4	9
106	Quantitative Characterization of Protein-Lipid Interactions by Free Energy Simulation between Binary Bilayers. <i>Journal of Chemical Theory and Computation</i> , <b>2019</b> , 15, 6491-6503	6.4	2
105	Structure and Function in Antimicrobial Piscidins: Histidine Position, Directionality of Membrane Insertion, and pH-Dependent Permeabilization. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 9837-9853	16.4	35
104	Interactions of Water and Alkanes: Modifying Additive Force Fields to Account for Polarization Effects. <i>Journal of Chemical Theory and Computation</i> , <b>2019</b> , 15, 3854-3867	6.4	19
103	Revisiting Volumes of Lipid Components in Bilayers. <i>Journal of Physical Chemistry B</i> , <b>2019</b> , 123, 2697-2709	3.4	9

102	Mannobiose-Grafting Shifts PEI Charge and Biphasic Dependence on pH. <i>Macromolecular Chemistry and Physics</i> , <b>2019</b> , 220, 1800423	2.6	6
101	Molecular Dynamics Simulations of Membrane Permeability. <i>Chemical Reviews</i> , <b>2019</b> , 119, 5954-5997	68.1	117
100	Permeability of membranes in the liquid ordered and liquid disordered phases. <i>Nature Communications</i> , <b>2019</b> , 10, 5616	17.4	37
99	Structural properties of apolipoprotein A-I mimetic peptides that promote ABCA1-dependent cholesterol efflux. <i>Scientific Reports</i> , <b>2018</b> , 8, 2956	4.9	21
98	Comparison of Additive and Polarizable Models with Explicit Treatment of Long-Range Lennard-Jones Interactions Using Alkane Simulations. <i>Journal of Chemical Theory and Computation</i> , <b>2018</b> , 14, 948-958	6.4	31
97	Graph-Theoretic Analysis of Monomethyl Phosphate Clustering in Ionic Solutions. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 1484-1494	3.4	31
96	Molecular dynamics simulations of lipid nanodiscs. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2018</b> , 1860, 2094-2107	3.8	14
95	Tertiary structure of apolipoprotein A-I in nascent high-density lipoproteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 5163-5168	11.5	22
94	Parameterization of the CHARMM All-Atom Force Field for Ether Lipids and Model Linear Ethers. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 6744-6754	3.4	18
93	Membrane Permeability: Characteristic Times and Lengths for Oxygen and a Simulation-Based Test of the Inhomogeneous Solubility-Diffusion Model. <i>Journal of Chemical Theory and Computation</i> , <b>2018</b> , 14, 3811-3824	6.4	16
92	Position-Dependent Diffusion Tensors in Anisotropic Media from Simulation: Oxygen Transport in and through Membranes. <i>Journal of Chemical Theory and Computation</i> , <b>2017</b> , 13, 2962-2976	6.4	30
91	Gramicidin A Channel Formation Induces Local Lipid Redistribution I: Experiment and Simulation. <i>Biophysical Journal</i> , <b>2017</b> , 112, 1185-1197	2.9	31
90	Gramicidin A Channel Formation Induces Local Lipid Redistribution II: A 3D Continuum Elastic Model. <i>Biophysical Journal</i> , <b>2017</b> , 112, 1198-1213	2.9	15
89	Lipid and Peptide Diffusion in Bilayers: The Saffman-Delbrück Model and Periodic Boundary Conditions. <i>Journal of Physical Chemistry B</i> , <b>2017</b> , 121, 3443-3457	3.4	69
88	Characterizing Residue-Bilayer Interactions Using Gramicidin A as a Scaffold and Tryptophan Substitutions as Probes. <i>Journal of Chemical Theory and Computation</i> , <b>2017</b> , 13, 5054-5064	6.4	11
87	Identification of a novel lipid binding motif in apolipoprotein B by the analysis of hydrophobic cluster domains. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2017</b> , 1859, 135-145	3.8	11
86	Simulations of Membrane-Disrupting Peptides I: Alamethicin Pore Stability and Spontaneous Insertion. <i>Biophysical Journal</i> , <b>2016</b> , 111, 1248-1257	2.9	34
85	Simulations of Membrane-Disrupting Peptides II: AMP Piscidin 1 Favors Surface Defects over Pores. <i>Biophysical Journal</i> , <b>2016</b> , 111, 1258-1266	2.9	43

84	Mechanical properties of lipid bilayers from molecular dynamics simulation. <i>Chemistry and Physics of Lipids</i> , <b>2015</b> , 192, 60-74	3.7	162
83	Hexagonal Substructure and Hydrogen Bonding in Liquid-Ordered Phases Containing Palmitoyl Sphingomyelin. <i>Biophysical Journal</i> , <b>2015</b> , 109, 948-55	2.9	89
82	Strong influence of periodic boundary conditions on lateral diffusion in lipid bilayer membranes. <i>Journal of Chemical Physics</i> , <b>2015</b> , 143, 243113	3.9	55
81	The Curvature Induction of Surface-Bound Antimicrobial Peptides Piscidin 1 and Piscidin 3 Varies with Lipid Chain Length. <i>Journal of Membrane Biology</i> , <b>2015</b> , 248, 455-67	2.3	27
80	Molecular modeling of lipid membrane curvature induction by a peptide: more than simply shape. <i>Biophysical Journal</i> , <b>2014</b> , 106, 1958-69	2.9	39
79	The molecular structure of the liquid-ordered phase of lipid bilayers. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 725-32	16.4	164
78	High-resolution structures and orientations of antimicrobial peptides piscidin 1 and piscidin 3 in fluid bilayers reveal tilting, kinking, and bilayer immersion. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 3491-504	16.4	61
77	CHARMM all-atom additive force field for sphingomyelin: elucidation of hydrogen bonding and of positive curvature. <i>Biophysical Journal</i> , <b>2014</b> , 107, 134-45	2.9	138
76	Determination of biomembrane bending moduli in fully atomistic simulations. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 13582-5	16.4	67
75	Langevin dynamics simulations of charged model phosphatidylinositol lipids in the presence of diffusion barriers: toward an atomic level understanding of corralling of PIP2 by protein fences in biological membranes. <i>BMC Biophysics</i> , <b>2014</b> , 7, 13	0	6
74	Simulations of anionic lipid membranes: development of interaction-specific ion parameters and validation using NMR data. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 10183-92	3.4	130
73	Assessing smectic liquid-crystal continuum models for elastic bilayer deformations. <i>Chemistry and Physics of Lipids</i> , <b>2013</b> , 169, 19-26	3.7	16
72	Theory of polymer-nanopore interactions refined using molecular dynamics simulations. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 7064-72	16.4	53
71	Bending free energy from simulation: correspondence of planar and inverse hexagonal lipid phases. <i>Biophysical Journal</i> , <b>2013</b> , 104, 2202-11	2.9	55
70	Web interface for Brownian dynamics simulation of ion transport and its applications to beta-barrel pores. <i>Journal of Computational Chemistry</i> , <b>2012</b> , 33, 331-9	3.5	38
69	Structure and elasticity of lipid membranes with genistein and daidzein bioflavonoids using X-ray scattering and MD simulations. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 3918-27	3.4	51
68	The tension of a curved surface from simulation. <i>Journal of Chemical Physics</i> , <b>2012</b> , 137, 234101	3.9	16
67	Depth of Synuclein in a bilayer determined by fluorescence, neutron reflectometry, and computation. <i>Biophysical Journal</i> , <b>2012</b> , 102, 613-21	2.9	78

66	Influence of hydrophobic mismatch on structures and dynamics of gramicidin a and lipid bilayers. <i>Biophysical Journal</i> , <b>2012</b> , 102, 1551-60	2.9	78
65	Brownian dynamics simulations of ion transport through the VDAC. <i>Biophysical Journal</i> , <b>2011</b> , 100, 611-619	2.9	49
64	Molecular dynamics studies of ion permeation in VDAC. <i>Biophysical Journal</i> , <b>2011</b> , 100, 602-610	2.9	68
63	Coarse-grained model for PEGylated lipids: effect of PEGylation on the size and shape of self-assembled structures. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 7830-7	3.4	93
62	Evidence for a fence that impedes the diffusion of phosphatidylinositol 4,5-bisphosphate out of the forming phagosomes of macrophages. <i>Molecular Biology of the Cell</i> , <b>2011</b> , 22, 3498-507	3.5	63
61	Single molecule diffusion of membrane-bound proteins: window into lipid contacts and bilayer dynamics. <i>Biophysical Journal</i> , <b>2010</b> , 99, 2879-87	2.9	131
60	Comparing simulated and experimental translation and rotation constants: range of validity for viscosity scaling. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 12501-7	3.4	43
59	Update of the CHARMM all-atom additive force field for lipids: validation on six lipid types. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 7830-43	3.4	2654
58	Comparison of the extended isotropic periodic sum and particle mesh Ewald methods for simulations of lipid bilayers and monolayers. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 5855-62	3.4	43
57	Molecular dynamics simulations of PIP2 and PIP3 in lipid bilayers: determination of ring orientation, and the effects of surface roughness on a Poisson-Boltzmann description. <i>Biophysical Journal</i> , <b>2009</b> , 97, 155-63	2.9	58
56	A coarse-grained model for polyethylene oxide and polyethylene glycol: conformation and hydrodynamics. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 13186-94	3.4	298
55	CHARMM Additive All-Atom Force Field for Glycosidic Linkages between Hexopyranoses. <i>Journal of Chemical Theory and Computation</i> , <b>2009</b> , 5, 2353-2370	6.4	473
54	Chapter 1 Considerations for Lipid Force Field Development. <i>Current Topics in Membranes</i> , <b>2008</b> , 1-48	2.2	51
53	Rotation of lipids in membranes: molecular dynamics simulation, 31P spin-lattice relaxation, and rigid-body dynamics. <i>Biophysical Journal</i> , <b>2008</b> , 94, 3074-83	2.9	81
52	Structure and dynamics of helix-0 of the N-BAR domain in lipid micelles and bilayers. <i>Biophysical Journal</i> , <b>2008</b> , 95, 4315-23	2.9	40
51	Collective and noncollective models of NMR relaxation in lipid vesicles and multilayers. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 5924-9	3.4	44
50	Molecular dynamics studies of polyethylene oxide and polyethylene glycol: hydrodynamic radius and shape anisotropy. <i>Biophysical Journal</i> , <b>2008</b> , 95, 1590-9	2.9	347
49	Additive empirical force field for hexopyranose monosaccharides. <i>Journal of Computational Chemistry</i> , <b>2008</b> , 29, 2543-64	3.5	421

48	Additive and Classical Drude Polarizable Force Fields for Linear and Cyclic Ethers. <i>Journal of Chemical Theory and Computation</i> , <b>2007</b> , 3, 1120-33	6.4	210
47	Ab initio modeling of glycosyl torsions and anomeric effects in a model carbohydrate: 2-ethoxy tetrahydropyran. <i>Biophysical Journal</i> , <b>2007</b> , 93, 1-10	2.9	45
46	Long-range Lennard-Jones and electrostatic interactions in interfaces: application of the isotropic periodic sum method. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 4393-400	3.4	71
45	Dynamical motions of lipids and a finite size effect in simulations of bilayers. <i>Journal of Chemical Physics</i> , <b>2006</b> , 125, 144710	3.9	106
44	Simulation-based methods for interpreting x-ray data from lipid bilayers. <i>Biophysical Journal</i> , <b>2006</b> , 90, 2796-807	2.9	188
43	Importance of the CMAP correction to the CHARMM22 protein force field: dynamics of hen lysozyme. <i>Biophysical Journal</i> , <b>2006</b> , 90, L36-8	2.9	263
42	Adjacent gauche stabilization in linear alkanes: implications for polymer models and conformational analysis. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 15684-6	3.4	50
41	Molecular dynamics simulations of the influenza hemagglutinin fusion peptide in micelles and bilayers: conformational analysis of peptide and lipids. <i>Journal of Molecular Biology</i> , <b>2005</b> , 354, 1129-41	6.5	67
40	A molecular dynamics study of the response of lipid bilayers and monolayers to trehalose. <i>Biophysical Journal</i> , <b>2005</b> , 89, 4111-21	2.9	92
39	An ab initio study on the torsional surface of alkanes and its effect on molecular simulations of alkanes and a DPPC bilayer. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 5300-11	3.4	279
38	Pressure-Based Long-Range Correction for Lennard-Jones Interactions in Molecular Dynamics Simulations: Application to Alkanes and Interfaces. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 363-368	3.4	90
37	Discriminating the helical forms of peptides by NMR and molecular dynamics simulation. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 10478-84	16.4	24
36	Molecular dynamics simulations of water wires in a lipid bilayer and water/octane model systems. <i>Journal of Chemical Physics</i> , <b>2002</b> , 116, 2663-2664	3.9	20
35	Lipid bilayers, NMR relaxation, and computer simulations. <i>Accounts of Chemical Research</i> , <b>2002</b> , 35, 438-446	4.3	117
34	Simulations of membranes and other interfacial systems using P2(1) and Pc periodic boundary conditions. <i>Biophysical Journal</i> , <b>2002</b> , 82, 2317-25	2.9	51
33	Molecular Dynamics Simulations of Octyl Glucoside Micelles: Dynamic Properties. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 8312-8321	3.4	73
32	Molecular Dynamics Simulations of Octyl Glucoside Micelles: Structural Properties. <i>Journal of Physical Chemistry B</i> , <b>2000</b> , 104, 5462-5470	3.4	125
31	Molecular dynamics simulations of gel (L <sub>1</sub> ) phase lipid bilayers in constant pressure and constant surface area ensembles. <i>Journal of Chemical Physics</i> , <b>2000</b> , 112, 4822-4832	3.9	95

30	Constant surface tension simulations of lipid bilayers: The sensitivity of surface areas and compressibilities. <i>Journal of Chemical Physics</i> , <b>1999</b> , 111, 1281-1287	3.9	256
29	Distinguishing Anisotropy and Flexibility of the Pentasaccharide LNF-1 in Solution by Carbon-13 NMR Relaxation and Hydrodynamic Modeling. <i>Journal of the American Chemical Society</i> , <b>1999</b> , 121, 11847-11854	16.4	18549
28	Solution structure and dynamics of linked cell attachment modules of mouse fibronectin containing the RGD and synergy regions: comparison with the human fibronectin crystal structure. <i>Journal of Molecular Biology</i> , <b>1998</b> , 277, 663-82	6.5	135
27	Computer Simulation of a DPPC Phospholipid Bilayer: Structural Changes as a Function of Molecular Surface Area. <i>Langmuir</i> , <b>1997</b> , 13, 6555-6561	4	179
26	Molecular Dynamics Simulations of Neat Alkanes: The Viscosity Dependence of Rotational Relaxation. <i>The Journal of Physical Chemistry</i> , <b>1996</b> , 100, 2652-2660		47
25	Effect of Electrostatic Force Truncation on Interfacial and Transport Properties of Water. <i>The Journal of Physical Chemistry</i> , <b>1996</b> , 100, 17011-17020		351
24	Diffusion limited first contact of the ends of a polymer: Comparison of theory with simulation. <i>Journal of Chemical Physics</i> , <b>1996</b> , 105, 3878-3882	3.9	136
23	Constant pressure molecular dynamics simulation: The Langevin piston method. <i>Journal of Chemical Physics</i> , <b>1995</b> , 103, 4613-4621	3.9	3093
22	Computer simulation of liquid/liquid interfaces. II. Surface tension-area dependence of a bilayer and monolayer. <i>Journal of Chemical Physics</i> , <b>1995</b> , 103, 10267-10276	3.9	174
21	Computer simulation of liquid/liquid interfaces. I. Theory and application to octane/water. <i>Journal of Chemical Physics</i> , <b>1995</b> , 103, 10252-10266	3.9	293
20	A Comparison of Methods for Computing Transition Rates from Molecular Dynamics Simulation. <i>Molecular Simulation</i> , <b>1994</b> , 13, 25-38	2	14
19	Conformational sampling of hydrocarbon and lipid chains in an orienting potential. <i>Journal of Computational Chemistry</i> , <b>1994</b> , 15, 208-226	3.5	24
18	Molecular dynamics and Monte Carlo simulations of lipid bilayers. <i>Current Opinion in Structural Biology</i> , <b>1994</b> , 4, 486-492	8.1	161
17	Positional time correlation function for one-dimensional systems with barrier crossing: Memory function corrections to the optimized Rouse-Zimm approximation. <i>Journal of Chemical Physics</i> , <b>1993</b> , 98, 564-573	3.9	102
16	Langevin dynamics of a linear rotor in a Maier-Baue potential: Kramers turnover of the flipping rate. <i>Journal of Chemical Physics</i> , <b>1992</b> , 97, 5098-5100	3.9	14
15	Comparison of Langevin and molecular dynamics simulations. Equilibrium and dynamics of ethylene glycol in water. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1992</b> , 88, 1747		48
14	Langevin dynamics of peptides: the frictional dependence of isomerization rates of N-acetylalanyl-N-methylamide. <i>Biopolymers</i> , <b>1992</b> , 32, 523-35	2.2	663
13	Molecular dynamics simulation of methyl group relaxation in water. <i>Journal of Chemical Physics</i> , <b>1991</b> , 94, 4097-4098	3.9	9

12	Mean field stochastic boundary molecular dynamics simulation of a phospholipid in a membrane. <i>Biochemistry</i> , <b>1991</b> , 30, 2099-113	3.2	92
11	Synexin: molecular mechanism of calcium-dependent membrane fusion and voltage-dependent calcium-channel activity. Evidence in support of the "hydrophobic bridge hypothesis" for exocytotic membrane fusion. <i>Annals of the New York Academy of Sciences</i> , <b>1991</b> , 635, 328-51	6.5	48
10	Theoretically determined three-dimensional structures for amphipathic segments of the HIV-1 gp41 envelope protein. <i>AIDS Research and Human Retroviruses</i> , <b>1989</b> , 5, 7-22	1.6	89
9	Inertial effects in butane stochastic dynamics. <i>Journal of Chemical Physics</i> , <b>1989</b> , 91, 211-218	3.9	38
8	Anisotropic bead models for molecular hydrodynamics. <i>Journal of Chemical Physics</i> , <b>1989</b> , 90, 5729-5734	3.9	13
7	Frictional models for stochastic simulations of proteins. <i>Biopolymers</i> , <b>1988</b> , 27, 1001-14	2.2	119
6	An analysis of the accuracy of Langevin and molecular dynamics algorithms. <i>Molecular Physics</i> , <b>1988</b> , 65, 1409-1419	1.7	668
5	Parametrization of the friction constant for stochastic simulations of polymers. <i>The Journal of Physical Chemistry</i> , <b>1988</b> , 92, 2636-2641		93
4	A simulation based model of NMR T1 relaxation in lipid bilayer vesicles. <i>Journal of Chemical Physics</i> , <b>1988</b> , 89, 1128-1140	3.9	102
3	Brownian dynamics simulation of a lipid chain in a membrane bilayer. <i>Journal of Chemical Physics</i> , <b>1988</b> , 89, 1112-1127	3.9	106
2	Resonance raman studies of macrocyclic complexes. 2. Antiresonance and selective intensity enhancement in synthetic metal(II) porphyrin analogues. <i>Journal of the American Chemical Society</i> , <b>1976</b> , 98, 8007-14	16.4	36
1	Resonance raman studies of macrocyclic complexes. 1. Structural and electronic effects in synthetic metal(II) porphyrin analogues. <i>Journal of the American Chemical Society</i> , <b>1976</b> , 98, 7999-8006	16.4	31