David Henry Solomon

List of Publications by Year
in descending order

113 papers	4,826 citations	136740 32 h-index	102304 66 g-index
117 all docs	117 docs citations	117 times ranked	4723 citing authors

#	Article	IF	Citations
1	Duolayers at the Air/Water Interface: Improved Lifetime through Ionic Interactions. Journal of Physical Chemistry B, 2016, 120, 7401-7407.	1.2	2
2	Dynamic Performance of Duolayers at the Air/Water Interface. 1. Experimental Analysis. Journal of Physical Chemistry B, 2014, 118, 10919-10926.	1.2	4
3	Dynamic Performance of Duolayers at the Air/Water Interface. 2. Mechanistic Insights from All-Atom Simulations. Journal of Physical Chemistry B, 2014, 118, 10927-10933.	1.2	5
4	Formation of Dynamic Duolayer Systems at the Air/Water Interface by using Non-ionic Hydrophilic Polymers. Australian Journal of Chemistry, 2013, 66, 807.	0.5	7
5	Molecular Mechanism of Stabilization of Thin Films for Improved Water Evaporation Protection. Langmuir, 2013, 29, 14451-14459.	1.6	23
6	Molecular Interactions behind the Synergistic Effect in Mixed Monolayers of 1-Octadecanol and Ethylene Glycol Monooctadecyl Ether. Journal of Physical Chemistry B, 2013, 117, 3603-3612.	1.2	12
7	On the Origins of Nitroxide Mediated Polymerization (NMP) and Reversible Additionâ€“Fragmentation Chain Transfer (RAFT). Australian Journal of Chemistry, 2012, 65, 945.	0.5	50
8	Rational design of monolayers for improved water evaporation mitigation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 415, 47-58.	2.3	17
9	The effect of acrylamide-co-vinylpyrrolidinone copolymer on the depression of talc in mixed nickel mineral flotation. Minerals Engineering, 2011, 24, 449-454.	1.8	18
10	Comb polymers: Are they the answer to monolayer stability?. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 384, 482-489.	2.3	12
11	Australiaâ€™s Plastic Banknotes: Fighting Counterfeit Currency. Angewandte Chemie - International Edition, 2010, 49, 3726-3736.	7.2	92
12	Monolayer Structure and Evaporation Resistance: A Molecular Dynamics Study of Octadecanol on Water. Journal of Physical Chemistry B, 2010, 114, 3869-3878.	1.2	36
13	Self-healing polymeric materials: A review of recent developments. Progress in Polymer Science, 2008, 33, 479-522.	11.8	1,221
14	Autophobicity-Driven Surface Segregation and Patterning of Coreâ^'Shell Microgel Nanoparticles. Nano Letters, 2008, 8, 3010-3016.	4.5	12
15	Admicellar polymerization of styrene with divinyl benzene on alumina particles: the synthesis of white reinforcing fillers. Journal of Materials Science, 2006, 41, 7474-7482.	1.7	22
16	An alternative pathway for the hydrolysis of epoxy ester compounds. Polymer, 2006, 47, 8247-8252.	1.8	25
17	Effect of ?glutaraldehyde? functionality on network formation in poly(vinyl alcohol) membranes. Journal of Applied Polymer Science, 2005, 96, 780-792.	1.3	28
18	Polymerization-induced phase separations in branched poly(methyl methacrylate) synthesis. Journal of Applied Polymer Science, 2005, 98, 1462-1468.	1.3	1

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19	Initiator efficiency in ATRP: the tosyl chloride/CuBr/PMDETA system. Polymer, 2005, 46, 2097-2104.	1.8	22
20	Genesis of the CSIRO polymer group and the discovery and significance of nitroxide-mediated living radical polymerization. Journal of Polymer Science Part A, 2005, 43, 5748-5764.	2.5	94
21	Controlling Polymerization. , 2005, , 413-449.		1
22	Living Radical Polymerization. , 2005, , 451-585.		53
23	Propagation. , 2005, , 167-232.		1
24	From well defined star-microgels to highly ordered honeycomb films. Journal of Materials Chemistry, 2005, , .	6.7	6
25	Synthetic hydrogels 3. Solvent effects on poly(2-hydroxyethyl methacrylate) networks. Polymer, 2004, 45, 4017-4027.	1.8	34
26	Interpenetrating Amphiphilic Polymer Networks of Poly(2-hydroxyethyl methacrylate) and Poly(ethylene oxide). Chemistry of Materials, 2004, 16, 5650-5658.	3.2	24
27	Dewetting of Star Nanogel/Homopolymer Blends from an Immiscible Homopolymer Substrate. Macromolecules, 2004, 37, 7857-7860.	2.2	11
28	Poly(vinyl alcohol) hydrogels: Their synthesis and steps towards control of electroendosmosis. Electrophoresis, 2003, 24, 12-19.	1.3	11
29	Synthetic hydrogels 2. Polymerization induced phase separation in acrylamide systems. Polymer, 2003, 44, 7335-7344.	1.8	28
30	Degradation on polyacrylamides. Part II. Polyacrylamide gels. Polymer, 2003, 44, 3817-3826.	1.8	41
31	Synthetic hydrogels. 1. Effects of solvent on poly(acrylamide) networks. Polymer, 2003, 44, 6195-6203.	1.8	24
32	Degradation on polyacrylamides. Part I. Linear polyacrylamide. Polymer, 2003, 44, 1331-1337.	1.8	94
33	Chain Length Dependence of Radicalâ^'Radical Termination in Free Radical Polymerization:Â A Pulsed Laser Photolysis Investigation. Macromolecules, 2003, 36, 2032-2040.	2.2	21
34	Synthesis, Characterization, and Direct Observation of Star Microgels. Macromolecules, 2003, 36, 5650-5654.	2.2	35
35	Some Aspects of the Properties and Degradation of Polyacrylamides. Chemical Reviews, 2002, 102, 3067-3084.	23.0	340
36	Synthesis, Characterization, and Modelling of Novel Multifunctional Acryloyl-Based Monomers: An Experimental and Computational Study. Australian Journal of Chemistry, 2002, 55, 675.	0.5	4

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37	Graft copolymerization studies. III. Methyl methacrylate onto polypropylene and polyethylene terephthalate. Journal of Applied Polymer Science, 2002, 83, 898-915.	1.3	17
38	Controlling carbon microporosity: the structure of carbons obtained from different phenolic resin precursors. Carbon, 2002, 40, 743-749.	5.4	57
39	Controlled Formation of Microheterogeneous Polymer Networks:â€‰ Influence of Monomer Reactivity on Gel Structure. Macromolecules, 2001, 34, 6396-6401.	2.2	54
40	Complexes of Benzene-1,2-diol Mannich Bases. II. Novel Aluminium(III) Complexes. Australian Journal of Chemistry, 2001, 54, 383.	0.5	8
41	Title is missing!. Australian Journal of Chemistry, 2001, 54, 375.	0.5	8
42	Control of reactivity of novolac resins: the use of 3,4-dihydro-2 H -pyran as a labile protecting group. Polymer, 2001, 42, 6339-6345.	1.8	2
43	3,5-Dimethylphenol resole resins: their structure and mechanism of thermal decomposition leading to graphitisation. Polymer, 2001, 42, 7523-7529.	1.8	9
44	Novel cross-linked polyacrylamide matrices: An investigation using gradient gel electrophoresis. Electrophoresis, 2001, 22, 4297-4302.	1.3	5
45	Novel cross-linked homogeneous polyacrylamide gels with improved separation properties: Investigation of the cross-linker functionality. Electrophoresis, 2001, 22, 4303-4310.	1.3	9
46	Characterization of the pore structure of aqueous three-dimensional polyacrylamide gels with a novel cross-linker. Electrophoresis, 2000, 21, 3843-3850.	1.3	18
47	Graft copolymerisation studies Part 1. Models related to polyolefins. Polymer, 2000, 41, 3137-3145.	1.8	33
48	Graft copolymerization studies Part II. Models related to polyethylene terephthalate. Polymer, 2000, 41, 3523-3529.	1.8	7
49	Studies on polyimides: Part 3. Interactions between hexamethylenetetramine and models for polyimides and novolacs. Polymer, 1999, 40, 3041-3050.	1.8	4
50	On the mechanism of background silver staining during sodium dodecyl sulphate-polyacrylamide gel electrophoresis. Electrophoresis, 1999, 20, 2039-2045.	1.3	6
51	Chemistry of novolac resins. X. Polymerization studies of HMTA and strategically synthesized model compounds. Journal of Polymer Science Part A, 1999, 37, 1347-1355.	2.5	15
52	Measurements of Primary Radical Concentrations Generated by Pulsed Laser Photolysis Using Fluorescence Detection. Journal of Physical Chemistry A, 1999, 103, 6580-6586.	1.1	44
53	The chemistry of novolac resins â€" V. Reactions of benzoxazine intermediates. Polymer, 1998, 39, 399-404.	1.8	42
54	The chemistry of novolac resins - VI. Reactions between benzoxazine intermediates and model phenols. Polymer, 1998, 39, 405-412.	1.8	39

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55	The chemistry of novolac resins: Part 7. Reactions of para-hydroxybenzylamine intermediates. Polymer, 1998, 39, 1957-1966.	1.8	14
56	The chemistry of novolac resins: Part 8. Reactions of para-hydroxybenzylamines with model phenols. Polymer, 1998, 39, 1967-1975.	1.8	19
57	Approaches to the controlled formation of network polymers. Polymer, 1998, 39, 5781-5787.	1.8	12
58	The Synthesis of Novel Hybrid Monomers. Australian Journal of Chemistry, 1998, 51, 31.	0.5	8
59	Determination of Thermal Diffusion Coefficients for Polydisperse Polymers and Microgels by ThFFF and SECâ^'MALLS. Macromolecules, 1998, 31, 7003-7009.	2.2	11
60	4,6-Dimethyl-o-quinone Methide and 4,6-Dimethylbenzoxete. Journal of Organic Chemistry, 1998, 63, 9806-9811.	1.7	44
61	Reaction of Acyclic Hydrocarbons Towards t-Butoxy Radicals. A Study of Hydrogen Atom Abstraction by Using the Radical Trapping Technique. Australian Journal of Chemistry, 1998, 51, 1113.	0.5	17
62	Direct Measurement of Primary Radical Concentrations in Pulsed Laser Photolysis. Macromolecules, 1997, 30, 7627-7630.	2.2	19
63	The chemistry of novolac resins. Part 4. The strategic synthesis of model compounds. Tetrahedron, 1997, 53, 13915-13932.	1.0	22
64	Functionality in phenol-formaldehyde step-growth polymerization. Polymer, 1997, 38, 4229-4232.	1.8	8
65	The chemistry of novolac resins: 3. 13C and 15N n.m.r. studies of curing with hexamethylenetetramine. Polymer, 1997, 38, 5835-5848.	1.8	116
66	Studies on microgels, 3. Synthesis using living free radical polymerization. Macromolecular Rapid Communications, 1997, 18, 755-760.	2.0	90
67	The reaction of furfuryl alcohol resins with hexamethylenetetramine: A13C and15N high-resolution solid-state NMR study. Journal of Polymer Science, Part B: Polymer Physics, 1997, 35, 2233-2243.	2.4	16
68	Chemistry of novolac resins. II. Reaction of model phenols with hexamethylenetetramine. Journal of Polymer Science Part A, 1997, 35, 1389-1398.	2.5	33
69	Determination of molecular weight distributions of novolac resins by gel permeation chromatography. Journal of Polymer Science Part A, 1997, 35, 1399-1407.	2.5	32
70	Investigations into free radical polymerizations of allyl carbonatesâ€"II. An mndo study of hydrogen atom abstraction by hydroxyl radical. European Polymer Journal, 1996, 32, 85-89.	2.6	3
71	Studies on microgels: 2. Analysis of the reaction between â€˜livingâ€™ poly(4-t-butylstyrene) and dimethacrylates by size exclusion chromatography coupled with d.r.i., u.v. and m.a.l.l.s. detectors. Polymer, 1996, 37, 2459-2464.	1.8	7
72	Evaluation of propagation rate constants for the free radical polymerization of methacrylonitrile by pulsed laser photolysis. Macromolecular Rapid Communications, 1995, 16, 837-844.	2.0	31

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73	Investigations into the free radical polymerizations of allyl carbonatesâ€”I. The reaction of t-butoxyl radical. European Polymer Journal, 1995, 31, 809-818.	2.6	11
74	Strategic synthesis of model novolac resins. Tetrahedron Letters, 1994, 35, 4627-4630.	0.7	9
75	Studies on microgels, 1. Microgel formation studied by gel-permeation chromatography with an on-line light scattering detector. Macromolecular Chemistry and Physics, 1994, 195, 2477-2489.	1.1	20
76	The mechanism of precipitation of calcium L(+)-tartrate in a model wine solution. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1994, 82, 225-235.	2.3	10
77	Radical-Induced Decomposition of Dimethyl-N-(2-Cyano-2-Propyl)Ketenimine. Journal of Macromolecular Science - Pure and Applied Chemistry, 1994, 31, 329-337.	1.2	0
78	Further studies on the thermal decomposition of AIBNâ€”implications concerning the mechanism of termination in methacrylonitrile polymerization. European Polymer Journal, 1993, 29, 379-388.	2.6	35
79	Comparison of initiation mechanisms for polymerization initiated by primary, secondary and tertiary alkoxyl radicals. European Polymer Journal, 1993, 29, 397-400.	2.6	20
80	Theories in polymer science â€•helpful or inhibiting?. Makromolekulare Chemie Macromolecular Symposia, 1992, 53, 1-11.	0.6	0
81	Recent developments in free-radical polymerization â€” a mini review. Progress in Organic Coatings, 1992, 21, 227-254.	1.9	13
82	Effect of ethyl aluminium sesquichloride on the specificity of the reactions of 1-methyl-1-methoxycarbonylethyl radical. Polymer Bulletin, 1992, 27, 425-428.	1.7	8
83	Absolute rate constants for radical-monomer reactions. Polymer Bulletin, 1992, 29, 647-652.	1.7	74
84	Effects of solvent on model copolymerization reactions. A 13C-NMR study. European Polymer Journal, 1992, 28, 275-282.	2.6	15
85	Recent Developments in Free Radical Polymerization. , 1992, , 13-25.		1
86	Initiation mechanisms in radical polymerization: reaction of isopropoxyl radicals with methyl methacrylate. Journal of the Chemical Society Perkin Transactions 1, 1991, , 1351.	0.9	19
87	The philicity of tert-butoxy radicals. What factors are important in determining the rate and regiospecificity of tert-butoxy radical addition to olefins?. Journal of Organic Chemistry, 1989, 54, 1607-1611.	1.7	67
88	â€œWeak linksâ€•in polystyreneâ€”thermal degradation of polymers prepared with AIBN or benzoyl peroxide as initiator. European Polymer Journal, 1989, 25, 767-777.	2.6	33
89	Azo and Peroxy Initiators. , 1989, , 97-121.		21
90	Australia's Bicentennial $10 Note. Interdisciplinary Science Reviews, 1989, 14, 399-402.	1.0	2

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91	Thermal stability of poly(methyl methacrylate). Polymer Bulletin, 1988, 20, 499-503.	1.7	35
92	End groups of poly(methyl methacrylate-co-styrene) prepared with tert-butoxy, methyl, and/or phenyl radical initiation: effects of solvent, monomer composition, and conversion. Macromolecules, 1988, 21, 1522-1528.	2.2	38
93	Thermal stability of benzoyl peroxide-initiated polystyrene. Macromolecules, 1988, 21, 855-857.	2.2	19
94	Initiation mechanisms in radical polymerization: reaction of t-butoxy radicals with allyl acrylate and with diallyl ether. Journal of the Chemical Society Perkin Transactions 1, 1988, , 485.	0.9	11
95	Initiation. The reactions of primary radicals. Makromolekulare Chemie Macromolecular Symposia, 1987, 10-11, 109-125.	0.6	27
96	Kinetic data for coupling of primary alkyl radicals with a stable nitroxide. Journal of the Chemical Society Chemical Communications, 1986, , 1003.	2.0	27
97	Reaction of t-butoxy radicals with norbornadiene. Tetrahedron Letters, 1985, 26, 5081-5084.	0.7	14
98	Slow nitrogen inversionâ€“Nâ€“O rotation in 2-alkoxy-1,1,3,3-tetramethylisoindolines. Journal of the Chemical Society Chemical Communications, 1985, , 1249-1250.	2.0	10
99	Reactions of hydroxyl radicals with polymerizable olefins. Journal of the Chemical Society Perkin Transactions II, 1985, , 379.	0.9	18
100	The detection of preferred conformations in oligomers of methyl methacrylate in solution by 1H n.m.r. 2D-correlation spectroscopy. Journal of the Chemical Society Chemical Communications, 1985, , 1355.	2.0	23
101	Reaction of tert-butoxyl radicals with electron-rich Î±-methylvinyl monomers. Die Makromolekulare Chemie, 1984, 185, 1809-1817.	1.1	19
102	Title is missing!. Die Makromolekulare Chemie Rapid Communications, 1984, 5, 793-798.	1.1	84
103	2-(t-Butylazo)prop-2-yl hydroperoxide: a convenient source of hydroxyl radicals in organic media. Journal of the Chemical Society Chemical Communications, 1984, , 867.	2.0	9
104	Fate of the initiator in the azobisisobutyronitrile-initiated polymerization of styrene. Macromolecules, 1984, 17, 1094-1099.	2.2	97
105	Identification of end groups in polymers by a spin-echo NMR technique. Die Makromolekulare Chemie Rapid Communications, 1983, 4, 29-32.	1.1	20
106	Confirmation of the Mayo mechanism for the initiation of the thermal polymerization of styrene. Journal of the American Chemical Society, 1983, 105, 7761-7762.	6.6	84
107	Structure of benzoyl peroxide initiated polystyrene: determination of the initiator-derived functionality by carbon-13 NMR. Macromolecules, 1982, 15, 1188-1191.	2.2	96
108	Selectivity of the reaction of free radicals with styrene. Macromolecules, 1982, 15, 909-914.	2.2	223

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109	Reactions of benzoyloxyl radicals with some common vinyl monomers. Die Makromolekulare Chemie Rapid Communications, 1982, 3, 533-536.	1.1	35
110	Quantitative studies on free radical reactions with the scavenger 1,1,3,3-tetramethylisoindolinyl-2-oxy. Tetrahedron Letters, 1982, 23, 1309-1312.	0.7	74
111	The reaction of acyl peroxides with 2,2,6,6-tetramethylpiperidinyl-1-oxy. Tetrahedron Letters, 1981, 22, 1165-1168.	0.7	60
112	A new method for investigating the mechanism of initiation of radical polymerization. Polymer Bulletin, 1979, 1, 529-534.	1.7	99
113	Cyanoisopropyl radical induced cyclization and cyclopolymerization of N-methyl-N-(2-alkylallyl)amines and N-methyl-NN-bis-(2-alkylallyl)amines. A 13C nuclear magnetic resonance study. Journal of the Chemical Society Chemical Communications, 1975, , 982.	2.0	15